

दक्षिण बिहार केन्द्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF SOUTH BIHAR

स्व-अध्ययन रिपोर्ट – 2015
SELF STUDY REPORT – 2015

(मूल्यांकन एवं प्रत्यायन का प्रथम चक्र)
(FIRST CYCLE OF ASSESSMENT & ACCREDITATION)



Submitted to

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
बेंगलोर

**NATIONAL ASSESSMENT & ACCREDITATION COUNCIL
BANGALORE**



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BANGALORE**



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Preface

Central University of South Bihar (erstwhile Central University of Bihar) was established in 2009 through the act of Parliament under the Central Universities Act, 2009 (section 25) subsequently renames as Central University of South Bihar (CUSB) *vide* the Central Universities Amendment Act, 2014, No.-35 of 2014 *dt.* 17/12/2014. The university function from two campuses: Patna Campus (Birla Institute of Technology, PO: B. V. College, Patna – 800 014. Bihar. INDIA) and Gaya Campus (Binova Nagar, Behind Magadh Medical College, Gaya – 823001. Bihar. INDIA). The permanent campus of the university is under construction at Panchanpur, ~14 KM from Gaya; 25 KM from the historically important and spiritually revered place Bodh Gaya and 135 KM from Patna. Even during its initial stage, the university provides wide choice and combination of subjects for Master courses. The courses have been judiciously designed to cater to student's requirements with an amalgamation of theoretical concepts and hands on experience practical experience and application, in the form of summer internship, field work and dissertation. The university is offering a bouquet of interdisciplinary courses to address the concerns of 'equity and access' and increasing the access to quality higher education for citizens of less pedagogically developed districts. CUSB has very encouraging percentage of female students in its various courses. CUSB strives to impart all-inclusive development prospect to the students with a blend of curriculum and extracurricular learning and the another marked priority is to adopt neighboring villages for their all-round development and making the village self-sustaining and educated under Unnat Bharat Abhiyan. In the near future, the university plans to launch the School of Technology and School of Agricultural Sciences.

The Government of India has allotted ~ 300 acres of defense land to the institution at Panchanpur, Gaya, *vide* MHRD No.-13019/1/2013/D (Lands) *dt.* 14/11/2013 and handed over on 07/02/2014 for its permanent site to help in building a sprawling campus, equipped with all modern infrastructure and facilities. Gaya is globally known as a place of peace and enlightenment. The land of peace, where the Lord Buddha, not only got enlightenment rather he began his journey to enlighten the world from this land. Hence, the university plans to develop a Center for Buddhist and Pali studies besides becoming a Center of learning of new branches of science and technology besides becoming a hub of oriental and contemporary social, economic, agricultural and vocational studies at the Undergraduate, Postgraduate and Doctoral level.

The university is following Choice Based Credit System since its inception providing flexibility of choice to introduce innovative and interdisciplinary approaches in the selection of courses. Revision of the syllabus in tune with the emerging needs of the industry and society, additionally offering a bouquet of optional and elective courses for students is the key feature of the offered curricula. In all the programmes the curriculum comprises of four components which



relate to foundation, core, elective, and practical courses along with research component in the final semester. Students are offered elective courses in their own departments/centers as well as have an option to choose elective courses being offered by other departments/centers of study.

The first Vice-Chancellor of CUSB was a distinguished academician under whose able stewardship a crew of academicians and support staff joined to work to build the CUSB, an institution on par with global standards from a state of nothingness and anonymity. Fortunately the university has got distinguished academician as regular Vice Chancellor on 05-08-2015, who is dedicated to academic and social cause with long experience of teaching and research in a University of National Importance (BHU). The present Vice Chancellor is a renowned academician, an eminent social scientist and an incisive member of several national committees. A committed educationist, the present Vice Chancellor is dedicated to holding aloft the vision and mission of CUSB, aiming at sound and unrelenting growth of the university as well as the neighboring social community.

The university has a prospective plan for development, including ambitious plans for the development of the institutional infrastructure, student's welfare and its staff. The institution's policies and programmes are aimed accordingly. At present the quality improvement strategies include various innovations in teaching-learning process and promotion of research. The social outreach programme of the university is targeted towards community engagement and development of sensitivity among its students and staff. The university has made a promising beginning in developing innovative measures in its academic and administrative approach, which are reflected in this Self Study Report (SSR).

This SSR documents the activities of the university in the assessment period (2010-15), compiled for submission to the NAAC for the first cycle of assessment and accreditation process of CUSB. The SSR has been carefully compiled with inputs from all the Departments/Centres/Programmes and the administrative and support sections of the university. Despite many constraints during the formative years, the CUSB has been able to make significant progress pedagogic, research, infrastructural and student enrichment activities aiming at all inclusive development. The contributions of all academic and administrative staff and students for preparing of this comprehensive report are duly acknowledged.



प्रो० हरिश्चन्द्र सिंह राठौर
कुलपति
Prof. H. C. S. Rathore
Vice-Chancellor



दक्षिण बिहार केन्द्रीय विश्वविद्यालय
केन्द्रीय विश्वविद्यालय अधिनियम 2009 के अन्तर्गत स्थापित
CENTRAL UNIVERSITY OF SOUTH BIHAR
Established under Central Universities Act 2009

From the Vice-Chancellor's Desk

Central University of South Bihar (Erstwhile Central University of Bihar), has been established in 2009 through the act of Parliament under the Central Universities Act, 2009 (section 25 of 2009), and renamed by the Central University Amendment act 2014. The University is progressive to carve a niche with its policies, programmes and pedagogical innovations for quality teaching and research. In its academic endeavor it has significantly achieved a landmark in terms of infrastructure, laboratory, research apparatus, faculty recruitment procedural tasks, along with incorporation of innovative courses being offered presently in rented buildings in two campuses at Patna and Gaya. I took charge of my duties as Vice Chancellor on 5th August, 2015 and started my journey with identification of emerging priorities along with regular interaction with faculty, students and support staff regarding academic activities to win over constrains like issues of infrastructure, rented buildings and construction of building at its permanent site at Panchanpur, Gaya.

I realized that there is utmost need of own permanent campus. Faculty and research scholars need access to good laboratories and class rooms to research and explore all the time regardless of weekends and holidays. The Late Rabindranath Tagore's dreams of a University "having mind without fear and striving tirelessly towards perfection" cannot be possible without having its own house. I opted to expedite the construction work with all possible resources and consultations. I am happy to put on record my gratitude to the Hon'ble Minister HRD, Mrs. Smriti Irani who graciously laid the foundations of seven prime buildings of the university in the presence of the Secretary and Joint Secretary, Higher Education on 31st August, 2015. Hon'ble Minister assured to extend all-round support for construction work, quality enhancement and extension work (such as, adoption of villages, sensitizing neighboring citizens towards cleanliness and environment etc.) of the university. The Hon'ble Minister kindly echoed her concern regarding the expansion of CUSB in terms of appreciable number of teachers, students and infrastructure. In order to ensure the recruitment and retention of good faculty and staff in the university, the Hon'ble Minister was generous in announcing the establishment of a Kendriya Vidyalaya on the campus for the education of the children of the employee of the university. I am

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Gaya Office : Mohalla - Vinova Nagar, Chandauti Police Station, Magadh Medical College,
Ward No. 29, Gaya - 823001 (Bihar), Telephone : 0631-2210224
Website : www.cub.ac.in; Email : vc@cub.ac.in; Tele/Fax : 0612-2226535 (Patna)



confident of the consistent support of the Government as well as my colleagues and staff for prudent expansion in terms of available resources to meet the needs of a vibrant University campus soon.

The University is facing certain number of challenges which need to be addressed, such as, since the inception of CUSB, has the growth kept pace with time and space, both in terms of disciplines and the pedagogical innovations? Are the support services at par? Are the students of CUSB making the optimum benefit of its resources? Do faculty involve themselves in pedagogical inventions, through research and quality publications? At this juncture it is relevant to inspect and introspect about all these issues.

The CUSB has been steady towards its progressive goal since 2009, but is shortly behind to meet the contemporary challenges of academia. Where do the CUSB stand amongst other cohort Central Universities? The vision of the University must be focused on building institutional capacity to instill educational ethics to achieve its mission as follows:

- a. Building national capabilities in Science and Technology, Medicine, Agriculture, Social Science, Humanities and Quality research.
- b. Creating and sustaining community based learning wherein students acquire knowledge with due consideration for ethical, ecological, and social issues.
- c. Pursuing research in upcoming areas of science and technology to fulfil the needs of society through disseminating research findings.
- d. Providing opportunities for the inclusive growth and sustainable development of all stakeholders who were earlier deprived of certain facilities, and to make them accessible through CUSB.

Indeed, the six years of active exploration and experimentation of CUSB in academia, prompts me to adopt a newer and vigorous quality policy which includes the processes of continuous internal evaluation, choice based credit system and comprehensive, interactive and participative pedagogy. This sets the goal for CUSB in pursuance with global standards of excellence in all endeavours including teaching/learning, research and quality education to make it accountable for public at large. The University is established with the aims and purposes such as promoting advanced learning and research; building the capabilities of reasoning; imparting employment skills; promoting culture of high integrity



in various aspects of life in the society; and, serving local and regional communities as well as national interests at home and abroad.

After culmination of 6 years it is very imperative to find its place in the academic atlas of the country. Essentially, a large university can come into being by adding, brick by brick, the multidimensional ideas of a far-sighted, sensitive and creative genius. We need to think for holistic education, by limiting the partitions amongst disciplines. For all round development we need to learn philosophy, spirituality and history on one hand, and geography, science, technology, medicine, agriculture and environment-studies on the other. I am hopeful CUSB will achieve this goal soon within next five years gradually along with its upcoming campus.

Even without having its own permanent campus the CUSB has expanded in volume and scale. Having realized that CUSB has to add knowledge to the nation and its citizens, it has good number of teachers and students and currently offering 16 Master programmes, 4 integrated undergraduate, one UG programme in Arts and Crafts and Integrated MPhil-PhD programmes in a dozen of disciplines. Since 2011 five batches have already got degree. One of the most important challenges for a newly founded University is to achieve and maintain standards in order to uphold academic excellence. Even at the neonatal stage CUSB has responded well by adopting the CBCS and interdisciplinary approach in all its programmes from the very inception.

As a comprehensive learning cosmos, CUSB is dedicated to deliver socially liable academic and research outcomes. I, as a Vice chancellor take up these challenges to improve the existing condition and endeavor to establish a healthy atmosphere for academic excellence. Of course, there are no readily available solutions. We should strive for innovative ideas, scientific approaches that would address the multiple thespians of higher education. At this stage, there are certain questions, which need to be addressed: Has the expansion since its inception kept pace with the times, both in terms of the subjects and the practices in pedagogy? Are the support services up to par? Are the students of CUSB making the best use of its resources? Does the faculty engage in state of the art research and teaching? Where do the CUSB stand among its other cohort Central Universities?



It is very important to introspect and evaluate ourselves for further development in right direction. There is no yardstick to measure quality in higher education, fortunately, The National Accreditation and Assessment Council (NAAC) helps us, by evaluating institutions in an independent and rigorous manner. The assessment and accreditation is broadly understood to be the “Quality Status” of an institution and particularly in the context of Higher Education. The accreditation status indicates the quality in terms of its performance, related to the academic activities and its outcomes, which covers the curriculum, teaching-learning, evaluation, faculty and staff, research, infrastructure, learning resources, organization, governance, financial well-being, student services and other welfare services.

We at CUSB intend to ensure implementation of healthy practices and continuously improve the standards as needed, consistent with the efforts of NAAC to focus on the goals established for the accreditation process.

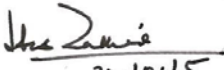
I look forward to get ourselves evaluated and accredited. We remain earnest to deliver an honest and transparent report that lists attainments and constraints. CUSB is open for suggestion and sincerely wish to have suggestions from all corners; we believe in Rigvedic hymn “आ नो भद्राः क्रतवो यन्तु विश्वतः” (Let noble thoughts come to us from every side)

I am sure suggestion from NAAC members will guide CUSB family in the pursuance of global standards of excellence in endeavours including teaching, research, and quality education and to remain accountable in our core and support.

Referring the motto of the university i.e. “*Collective Reasoning*” on which a healthy society can be developed through mutual interactions. I express my feelings as

सह नाववतु । सह नौ भुनक्तु ।
सह वीर्यं करवावहै ।
तेजस्वि नावधीतमस्तु मा विद्विषावहै ॥

“Let us together protect us,
Let us together nourish us,
Let us together work with energy and vigour,
Let us enlighten ourselves, and let us not have malice for each other.”


30.10.15

Prof. Harish Chandra Singh Rathore



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EXECUTIVE SUMMARY



EXECUTIVE SUMMARY

The Central University of South Bihar (CUSB) is one of the 16 universities established in 2009 through the act of Parliament under the Central Universities Act, 2009 (section 25 of 2009). The Act provides a legal framework for the university including its academic and administrative functioning. The university currently offers:

Sixteen Master programmes, one Vocational Course, four Integrated Undergraduate Courses and Integrated MPhil-PhD programmes in a dozen of disciplines.

The curriculum has been designed and implemented according to the norms and guidelines of the educational policies of the Central Government, and the global needs, while serving the cause of national development and regional aspirations. The culture of academic freedom and flexibility provides immense scope for introducing innovations in the curriculum to achieve the institutional objective, vision and mission of striving for academic excellence.

The curriculum is designed adhering to the guidelines of the UGC and other national academic organizations like AICTE, NCTE, BCI. The syllabus has been developed in a logical sequence, progressing from basic concepts to more complex themes and latest developments in a graded manner. The syllabus is regularly revised to provide a comprehensive coverage of the subject matter with emphasis on basic as well as applied aspects. The Expert Committees/ Board of Studies meet periodically to keep track of the new challenges and revise the curriculum in order to remove obsolescence and incorporate changes to retain its knowledge intensive outlook addressing the emerging needs.

The university is following Choice Based Credit System (CBCS) since its inception providing flexibility to introduce innovative and interdisciplinary approaches, revision of the syllabus in tune with the emerging needs of the industry and society, in addition to offering a range of optional and elective courses for the students. In all the programmes the curriculum comprises of four components, which relate to foundation, core, elective, and practical courses along with research component in the final semester. Students are offered elective courses in their own departments/centers as well as have option to choose elective courses being offered by other departments/centers of study.

The curriculum has been devised in such an enriched manner that enables students and stakeholders to fulfil the emerging needs. The enrichment courses include allied subjects, soft skill courses such as communication and computer applications, vocational courses,



managerial skills and industrial visits. The CUSB offers lateral mobility in selected programmes in the sense it allows students of one programme to pursue courses in related programmes and credit the same to qualify for the degree. The feedback on curriculum and programmes from the national and international faculty is obtained through mail or online discussions. When international faculty visits the departments to attend workshops/seminars, their suggestions are incorporated for the improvement of syllabi. The external experts of Board of Examiners at the end of each semester also review the syllabus and offer their remarks.

The CUSB imparts multiple skills such as learning skills, computer skills, technical and managerial skills and marketing skills to the students. The students are encouraged to use O9X6 available Cyber Library to enrich their learning experiences. It provides OPAC – Intranet facility to faculty members for using 24 X 7 to acquaint them with the latest upgradation of knowledge in their respective domain. Therefore, CUSB is steady in its efforts to attain value addition to all the offered programmes in a variety of novel ways so as to provide a holistic education which can meet the challenges of an individual as well as the society. The university curricula are supplemented through co-curricular and extra-curricular activities which involves both cultural activities and academic projects.

The university's career counseling and placement cell is active regarding 'Effective Communication and Personality Development' to hone skills such as communication, dynamic leadership, problem solving, critical and creative thinking to enhance decision-making abilities. The activity is inspired by Hon'ble Prime Minister's vision that is life-based-skill management in coordination with MHRD and supported by dedicated resource persons. The English language proficiency programmes are helping students to improve communication and public speaking abilities known to pay rich dividends during the course they opt to study as well as for their job scenarios. Many other activities related to personality development conducted in the CUSB are Yoga Classes, Swachh Bharat, Hindi Diwas and celebration of Education Day.

The students and faculty from Development Studies and Environmental Sciences strive to sensitize students about their social responsibilities and inculcate the spirit of voluntary service. It attempts to rouse awareness about the realities of life and foster a better understanding and appreciation of the problems of the downtrodden. The Environment Society (Ecoclub) has taken up the task of creating awareness amongst the youth about the growing environmental concerns. The society for the welfare of the girl students of our university, works towards gender sensitization and empowerment of women. The CUSB



creates awareness about the prevention of sexual harassment and educates the university community about the legal provisions available against sexual harassment at the workplace by arranging talks and documentaries.

Analysis of continuous internal assessment, semester examination results and regular interaction of the students with faculty and administration are the vital modus operandi used as a measure for successive maintenance of academic decorum.

The university conducts an on line Entrance Test (**Central University of South Bihar Entrance Test -CUSBET**) at national level to admit students in various programmes offered by the University. This makes provisions of interactive sessions, where parents and students can interact with faculty in the respective domains to have the inputs related to the facilities available in the respective department/center. Information regarding the admission process is available on the university's website (www.cub.ac.in). Admissions to the various programmes of study are advertised in leading newspapers in English and Hindi throughout India. University also disseminates news through press releases at regular intervals.

A brief profile of the university is also published in leading newspapers during admissions. The university prints the Prospectus every year. The Prospectus gives complete information regarding admission criteria, courses available, fee structure, available infrastructure, schools, departments, centers, faculty, cultural societies, facilities available, university disciplinary rules and relevant acts and statutes of the university.

The Seats in various courses are reserved under various categories like SC (15 %), ST (7.5 %), and OBC (27%). Besides, supernumerary seats are available for Children/Widows of Personnel of Armed Forces who died in action or on duty and Gallantry awardees, Person with Disabilities (PWD), Wards of Kashmiri Migrants, Foreign students, and under ECA (extra-curricular activities) and Sports categories, as per UGC/GOI guidelines.

The university organizes the Orientation Day for freshers, one or two days before the new academic session begins. The students are oriented with the university through presentations. Academic culture within the campus - attendance rules, internal assessment criterion, information sharing, add-on courses, social involvement, personality development, co-curricular and extracurricular activities, and much more are also shared.

The university admits majority of students from sub-urban and rural backgrounds and many of them are educated in Hindi medium. To improve their English language skills special lectures are arranged for the English language proficiency in the university. In order to empower students with the skill of self-confidence and effective communication, the



university invites eminent motivators to conduct workshops. The computer center of the university holds workshops to give basic computer skills. The university campus is the interactive learning platform where teachers are able to identify advanced learners in the regular class room teaching, which includes discussions, assignments, snap tests, quizzes and project works. The university promotes their growth in a positive way. The learning outcomes of the curriculum are interwoven around the three approaches viz., curricula based class room teaching/learning, exposure with peers and well established institutes through internship, and learning beyond the classroom through extracurricular activities.

After the first internal assessment test, the slow learners are identified (students securing <50% marks) and are given remedial learning platforms both in theory and practical, to motivate their interest in opted subjects. The identification of learning barriers is continuously monitored through evaluation, mentoring and counseling. The results of the students who perform below average are identified and discussed to gauge whether the problem lies with the language or in basic understanding of the subject matter. Such students are given additional time and support beyond their regular classroom learning. .

The advanced learners are given extra assistance by providing supplementary information which is essential to them and are also assigned additional project work dealing with advanced methodologies and approaches.

The students with special aptitude for research are motivated to work on individual mini projects funded by grant agencies. Learning needs of the students are assessed by getting constant feedback from the learners at the beginning and at the end of every semester.

Prior to commencement of the New Year, university prepares Academic Calendar as per provision of the MHRD. 'Continuous Internal Evaluation' is the crucial feature of the evaluation system of the CUSB. 35% marks are assigned for internal evaluation, 15% for Mid-Semester evaluation and the End semester evaluation is done for remaining 50% marks. In order to ensure transparency and fairness evaluated answer sheets are shown to students for verification. After the evaluation, at the end semester, subject experts from other universities are invited as part of the committee constituted as Board of Examiners (BoE) to look into the standard of question paper, coverage of the syllabus, evaluation pattern, etc. prior to announcement of the examination results.

Many of the programmes are having summer internship and field visits in their respective



course curriculum, thereby students get proper exposure of other societies / institutions and hands-on experience in the fields. Weekly seminars are the special features of each programme.

The university also ensures effective implementation of policies and programmes meant specifically for the persons with disabilities (PwD). The university supports students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. in the form of remedial classes, Student Aid for Knowledge, and Earn-while-you-Learn Programme (ELP). The university permits students to undertake excursions, educational tours or field trips accompanied by their classmates and faculty to enhance their knowledge and skill which may become helpful in the day to day activities. This provides an inclusive atmosphere to all the sections of society.

All departments/centers prepare their timetable at the commencement of each semester and are made available to students and are displayed on the notice board as well as in each class room. Besides the conventional curriculum based class room mode of teaching, the university adopts various other methods which includes use of virtual laboratories, e-learning, online resources, open educational resources, etc. to facilitate effective teaching/learning. The university provides a conducive environment and opening avenues for newer academic opportunities, in the form of a large number of research projects. Students even get opportunities to showcase their talent in International and National level conferences.

The faculty takes full care to keep up with the new trends/emerging areas of knowledge. Every teacher at assistant professor level participates in 4-week orientation courses and 3-week refresher courses conducted by academic staff colleges of the UGC. Our faculty also acts as resource person in orientation /refresher courses, faculty/entrepreneurship development programs at national and international level. Faculty are invited to chair/coordinate sessions and workshops and to deliver plenary lectures, keynote addresses at National and International Conferences. The university also organizes various workshops/conferences/seminars/symposium/university lecture series to get acquainted with the emerging and challenging areas of study. Many faculty have been involved to contribute for e-content/online resources, specially using multimedia components. The faculty members are involved in developing e-content/online resources for institutions of excellence such as NISCAIR, NMEICT and DU-ILLL cell. The university cultivates a healthy



competitive environment among the faculty to achieve recognition at national and international level for excellence in teaching and research. The university constitutes psychological counselling and guidance services for students, faculty and employees. Innovative programmes like ‘Crises Intervention Programmes’ and ‘Community Mental Health Programmes’ are planned to be developed.

One of the greatest strengths of the university is the volume and scale of original and exhilarating research activities carried out by its faculty. The enthusiasm and hard work of the faculty, despite a number of restraints/constraints has created a culture that displays seam-less integration of teaching and research. The quality of research work conducted by the faculty is authenticated by a large number of publications in peer reviewed national and international journals and collaboration within and outside country. The faculty and students have a long list of oral and poster presentations and have bagged many accolades. Promoting research into the classroom is one of the prime visions of the university. The university promotes active participation of students in research projects as a major co-curricular activity. The students and the faculty share an enthusiasm for innovation/invention and the laboratories are abuzz with research apparatus/tools/programmes throughout academic session.

Our laboratory and expertise of the faculty attracted a number of upcoming universities/institutions/organizations/industry/media houses to collaborate for practical and hands-on experience.

The research projects in the university are funded by the grants received by teachers from external funding agencies such as ICSSR, UGC, DBT, DST, CSIR, MOEF, ICMR.

To promote post-graduate research the university encourages summer internship programmes at well-established institutions, and CUSB support internship expenditure maximum upto Rs. 5000/ to needy students.

The students also get opportunities to conduct research under other schemes like ‘CUSB Innovation Council’. The CUSB faculty also visits other institutions and universities as guest faculty. The university believes that the educational institutions should serve not only their own students but the society as well. The university works with many NGOs for the development of under privileged and weaker sections of society through its social outreach



programme. This fulfills the motto of the university “**Collective Reasoning**” on which a healthy society can be developed through mutual interaction with society, industry and volunteering groups.

The recommendations of the regulatory bodies are given vital importance while framing the curriculum. The university follows the Choice Based Credit System (CBCS) and semester pattern. The university over the years has introduced new need-based programmes of study and revised the curricula to suit the needs of society and the local and global demands. The curricula developed by the university are well accepted in academic circles and has also been followed by other institutions.

The university interacts with industry, research institutes and civil society in the curriculum revision process. The expert committees and Boards of Studies in several departments comprise experts from industry and research institutes as members. In addition, industrialists and scientists who visit the university conferences and workshops to share their rich experience for suggesting changes and to improve in the curriculum to meet the changing need and growing demands of a dynamic world.

The two campuses of the university presently situated in rented buildings at Patna and Gaya has been ingeniously utilized to keep pace with the ever-growing needs by optimally utilizing space leading to well-equipped laboratories and two enviable air-conditioned libraries. The policy for all infrastructure development necessarily feature concerns of energy conservation, environment protection, and accessibility for differently able and value for money. The university has created a good infrastructure not only for academics but also to promote extra-curricular and extension activities.

All classrooms and laboratories have provision for multi-media equipments to supplement chalk- and-talk teaching/learning. The labs are equipped with the latest scientific equipment/apparatus to meet all teaching/learning requirements and beyond.

University has an air-conditioned conference room that can accommodate over 100 people. The fully-computerized library houses a comprehensive collection of over 15672 volumes covering all the discipline courses offered by the college, besides also providing for good general reading. The college subscribes to several reputed journals and periodicals. The administration of library is fully computerized and has the services of all latest ICT tools.



These are constantly upgraded under the guidance of a library committee duly constituted by the Executive council. The book exhibition is an annual feature of the university wherein all leading publishing houses display their new publications in the library. It provides an opportunity to procure books for library as well as personal use. The library timing is kept to the maximum so that access to it may be increased.

The IT infrastructure has seen a massive expansion in addition to large number of Desktops, laptops and servers in the last six years. The university has a very healthy computer-student ratio. Besides, three computer labs with 347- computers each exclusively devoted to teaching, a centralized computer centre having 112 terminals with wired internet community is available. All computer labs are air-conditioned, have un-interrupted power supply and have all the ancillary services. University acquired important software to serve as a backbone to use networks that allows access to a huge basket of educational e-resources. The university promotes use of ICT to the maximum in its teaching learning programmes.

The university reaches out to its students by providing the latest information about the facilities, opportunities and welfare schemes through variety of channels. To begin with, the university publishes a comprehensive prospectus every year which contains all students - specific information.

The university sensitivity to student's economic underpinning is reflected in the provisions of large number of institutional scholarship and free ships. In particular specific support and facilities have been made available to SC/ST, OBC and economically weaker sections. The financial assistance is supplemented by organization of remedial classes, assistance for buying books and stationary as well as fee waivers. In the '**Earn while you learn** scheme' students are engaged in part -time jobs in the university. Assistance is also available to students for participations in national and international competitions and conferences, medical check-ups etc.

The university lays special emphasis on skill oriented personality development through several students' specific schemes. The Career Counseling and Placement cell of the university efforts for appropriate placement and career guidance of students. Reasonable success has been achieved in placements during past years. Special statutory mechanism is in place to tackle issues pertaining to sexual harassment and ragging.

The university's vision and mission incorporates tenants of academic excellence with personality development. This is sought to be achieved within the realms of sensitivity towards society, environment and nation's goals within the parameters of holistic education.



The university works towards this vision under the able leadership of the Vice Chancellor Prof. H. C. S. Rathore who works in association with the Academic Council, Executive Council, Finance Committee and various committees and corporate societies. The top management body is an Executive Council constituted by the Visitor. This forms a collective democratic leadership which formulates policies, programmes and strategies for the furtherance of its stated objectives and welfare of students and employee. Various committees constituted by the Executive Council carries out the mandate of the collective in carrying out key functions of the university like admissions, maintenance of discipline, examinations, university development, welfare of students and employee along with emphasis on organization of various events. There is ample opportunity to groom leadership among faculty as well as students through the activities of these corporate lives of the university.

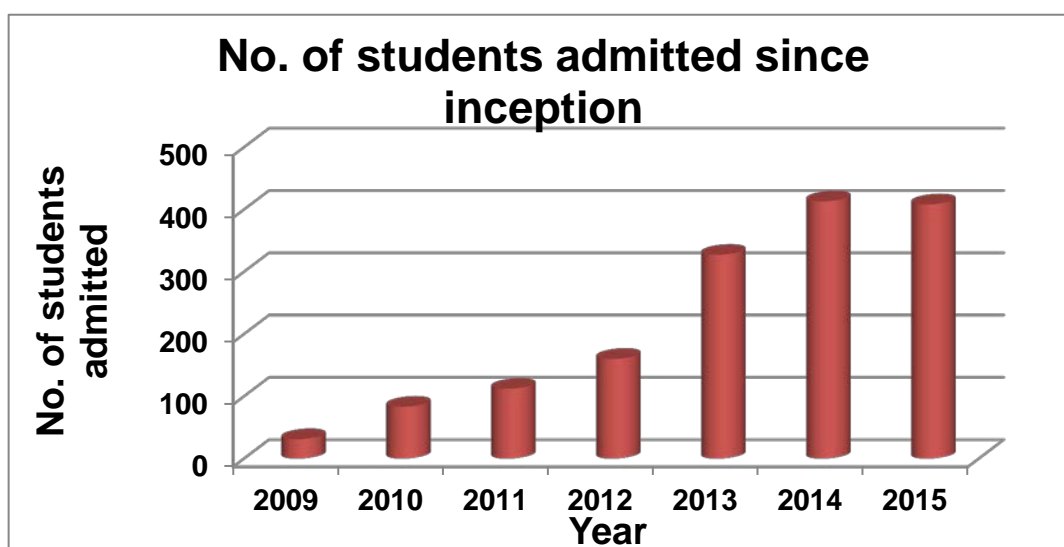
The university has a prospective plan for development which includes ambitious plans for the development of the institution, students' welfare and its staff. The institution's policies and programmes are aimed accordingly. At present the quality improvement strategies include various innovations in teaching-learning process and promotion of research. The social outreach programme of the university is targeted towards community engagement and development of sensitivity among its students and staff.

It is envisaged to aid the university in its pursuit to maintain high standards in academics and in furtherance of its stated vision of imparting holistic education.

Our students also get opportunities to conduct research under other schemes like 'CUSB Innovation Council. The CUSB faculty also visits other institutions and universities as guest/visiting faculty. The university believes that the educational institutions should serve not only their own students but the society as well. The university works with many NGOs for the development of underprivileged and weaker sections of society through its social outreach programme. The university organizes blood donation camps and health check-up camps annually. The university also organizes self-defense training programmes for girl students. All these activities are aimed at creating responsible and humane citizens.



PART-I (A) Profile of the University



Profile of the University

1. Name and Address of the University:

Name:	Central University of South Bihar	
Address:	BIT Campus, P.O - BV College	
City :	Patna, Pin : 800014	State : Bihar
Website:	www.cub.ac.in	

2. For Communication:

Designation	Name	telephone with STD Code	Mobile	Fax	Email
Vice Chancellor	Prof.H. C. S Rathore	O:0612-2226535 R: 0612-2524477	07260814333	0612-2226535	vc@cub.ac.in
Pro Vice Chancellor(s)	-	O: R:	-	-	-
Registrar	Prof. Rekha Agrawal	O:0612-2226536 R: 0612-2253090	09027169336	0612-2226536	registrar@cub.ac.in
Steering Committee, Co-ordinator	Dr.Ram Kumar	O: 0612-2784177 R:09811766991	08235426744	0612-2226536	ramkumar@cub.ac.in

3. Status of the University:

- (a) State University
- (b) State Private University
- (c) Central University
- (d) University under Section 3 of UGC (Deemed University) Institution of National Importance

- (e) Any other (Please specify)

4. Type of University:

- (a) Unitary (b) Affiliating

5. Source of funding:

- (a) Central Government
- (b) State Government
- (c) Self-financing
- (d) Any other (please specify)

6. Establishment:

- (a) Date of establishment of the university:
02 March 2009 under Central University Act 2009



(b) Prior to the establishment of the university, was it a/an : NA

- | | | | | |
|--------------------------------|-----|--------------------------|----|--------------------------|
| (i) PG Centre | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| (ii) Affiliated College | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| (iii) Constituent College | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| (iv) Autonomous College | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| (v) Any other (please specify) | | | | |

Newly established in 2009 through the act of Parliament under the Central Universities Act, 2009 (section 25 of 2009)

Give the date of establishment: 02/03/2009

7. Date of recognition as a University by UGC or any other national agency:

Established in 2009 through the act of Parliament under the Central Universities Act, 2009 (section 25 of 2009), Hence NA

SN.	Under Section	dd	mm	yyyy	Remarks
(a)	2f of UGC*				
(b)	12B of UGC*				
	3 of UGC#				
	Any other	02	03	2009	Established by the Act of Parliament in the year 2009

* Enclose certificate of recognition – [**Annexure I (a) & I (b)**]

Enclose notification of MHRD and UGC for all courses/programmes/campus /campuses

v Enclose certificate of recognition by any other national agency / agencies, if any.

8. Has the University been recognised?

(a) By UGC as a University with Potential for Excellence?

Yes No

If yes, date of recognition:(dd/mm/yyyy)

(b) For its performance by any other governmental agency?

Yes No

If yes, name of the agency: and date of recognition(dd/mm/yyyy)

9. Does the University have off-campus centres?

Yes No

If yes, date of establishment: (dd/mm/yyyy)

Date of recognition : (dd/mm/yyyy)



10. Does the University have off-shore campuses?

Yes No

If yes, date of establishment:(dd/mm/yyyy)

Date of recognition :.....(dd/mm/yyyy)

11. Location of the campus and area: Urban

Sl No.	Location *	Campus area in acres	Built up area in Sq. mts
(a)	Main campus area	300 (at Gaya)	Under construction (at Gaya)
(b)	Other campuses in the country	N/A	N/A
(c)	Campuses abroad	N/A	N/A
(d)	Temporary Campus at Patna	1.1479	4712.86
(e)	Temporary Campus at Gaya	0.300	3411.40

(* Urban, Semi Urban, Rural, Tribal, Hilly Area, Any Other (please specify))

If the University has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.

12. Provide information on the following: In case of multi-campus University, please provide campus-wise information.

(a) Auditorium/seminar complex with infrastructural facilities

(b) Sports facilities

(i) Playground - Shared

(ii) Swimming pool

(iii) Gymnasium

(c) Hostel

(i) Boys' hostel

(aa) Number of hostels : 01+02 (01 at Patna and 02 at Gaya)

(ab) Number of inmates : 56+79 (56 at Patna and 79 at Gaya)

(ac) Facilities : Water-cooler, Gyser, TV, Bed, Table, Chair, Amirah, indoor game sports facility
Internet Facility.

(ii) Girls' hostel

(aa) Number of hostels : 02+01 (2 at Patna and 01 at Gaya)

(ab) Number of inmates : 46+65 (46 at Patna and 65 at Gaya)

(ac) Facilities : Water-cooler, Geysers, TV, Bed, Table, Chair, Almirah, indoor game sports facility.
Internet Facility.

(iii) Working women's hostel- NIL

(aa) Number of hostels:



- (ab) Number of inmates:
(ac) Facilities :
- (d) Residential facilities for faculty and non-teaching staff: No
(e) Cafeteria: No
(f) Health Centre – Nature of facilities available – impatient, outpatient, Ambulance, emergency care facility etc. : On Campus Health facility available
(g) Facilities like banking, post office, book shops,etc.
(h) Transport facilities to cater to the needs of the students and staff - Yes
(i) Facilities for persons with disabilities- Yes
(j) Animal house
(k) Incinerator for laboratories
(m) Power house
(n) Waste management facility

13. Number of institutions affiliated to the university: No

Type of colleges	Total	Permanent	Temporary
Arts, Science and Commerce			
Law			
Medicine			
Engineering			
Education			
Management			
Others (specify and provide details)			

14. Does the University Act provide for conferment of autonomy (as recognized by the UGC) to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University: NA

Yes No Number



15. Furnish the following information :

Sl No.	Particulars	Number	Number of student
(a)	University Departments:		
	Undergraduate	5	327
	Post graduate	16	419
	Research centres on the campus	12	32
(b)	Constituent colleges	--	
(c)	Affiliated Colleges	--	
(d)	Colleges under 2(f)	--	
(e)	Colleges under 2(f) and 12 (b)	--	
(f)	NACC accredited colleges	--	
(g)	Colleges with Potential for Excellence (UGC)	--	
(h)	Autonomous colleges	--	
(i)	Colleges with Postgraduate Departments	--	
(j)	University recognised Research Institutes/Centres	--	

16. Does the University conform to the specification of Degrees as enlisted by the UGC?

Yes No

If the University uses any other nomenclatures, please specify.

17. Academic programmes offered by the University departments at present, under the following categories: (Enclose the list of academic programmes offered)

Programmes	Numbers
UG	05
PG	16
Integrated Masters	--
M.Phil.	--
Ph.D.	--
Integrated MPhil- Ph.D.	12
Certificate	--
Diploma	--
PG Diploma	--
Any other (please specify)	--
Total	33

18. Number of working days during the last academic year.

222



19. Number of teaching days during the past four academic years.

(Teaching days' means days on which classes were engaged. Examination days are not to be included)

20. Does the University have a department of Teacher Education?

Yes No

If yes,

- (a) Year of establishment : 2013 (14/08/2013)
- (b) NCTE recognition details (if applicable) Notification No: ER-185.6.13/2015/31325 Date: 22/04/2015 **Annexure II (a) Page no.**
- (c) Is the department opting for assessment and accreditation separately?
Yes No

21. Does the University have a teaching department of Physical Education?

Yes No

If yes,

- (a) Year of establishment(dd/mm/yyyy)
- (b) NCTE recognition details (if applicable) Notification No:.....
Date:(dd/mm/yyyy)
- (c) Is the department opting for assessment and accreditation separately?
Yes No

22. In the case of Private and Deemed Universities, please indicate whether professional programmes are being offered? : Not Applicable

Yes No

If yes, please enclose approval/recognition details issued by the statutory body governing the programme.

23. Has the University been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon:

*Yes reviewed and approved by BCI, AICTE, NCTE
[Annexure- II (a), Annexure- II (b) & Annexure- II (c) (467 to 475p.).]*



24. Number of positions in the University

Position	Teaching faculty			Non-teaching staff			Technical staff
	Professor	Associate Professor	Assistant Professor	Group 'A'	Group 'B'	Group 'C'	NA
Sanctioned by the UGC/University/State Government	22	43	88	21	30	67	NA
Recruited	01	07	65	12	20	57	NA
Yet to recruit	20	36	23	09	10	10	NA
Number of persons working on contract	01	-	12	-	01	01	NA

25. Qualifications of the teaching staff

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
D.Sc. / D.Litt.							
Ph.D.	01		07		36	08	52
M.Phil.					01	01	02
PG					06	02	08
Temporary teacher/Contract Teacher							
D.Sc. / D.Litt.							
Ph.D.	01				07	02	10
M.Phil.							
PG					02		02
Part-time teachers – Nil							
D.Sc. / D.Litt.							
Ph.D.							
M.Phil.							
PG							

26. Emeritus, Adjunct and visiting Professors.



	Emeritus	Adjunct	Visiting
Numbers	Nil	Nil	Nil

27. Chairs instituted by the university:

	Chairs
School / Department	Babu Jagjeevan Ram Chair

28. Students enrolled in the University departments during the current academic year, with the following details:

Student	UG			PG			Integrated MPhil-Ph.D		
	M	F	T	M	F	T	M	F	T
From the state where the University is located	187	117	304	181	204	385	15	8	23
From other states of India	13	10	23	24	10	34	6	3	9
NRI student	-	-	-	-	-	-	-	-	-
Foreign Students	-	-	-	-	-	-	-	-	-
Total	200	127	327	205	214	419	21	11	32

*M - Male *F – Female

29. 'Unit Cost' of education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

- (a) Including the salary component = Rs 2,54,506.08
- (b) Excluding the salary component = Rs.92,702.15

30. Academic Staff College - No

- (a) Year of establishment.....
- (b) Number of programmes conducted (with duration)
 - (i) UGC Orientation
 - (ii) UGC Refresher
 - (iii) University's own programmes

31. Does the University offer Distance Education Programmes (DEP)?

Yes No



If yes, indicate the number of programmes offered.

Are they recognised by the Distance Education Council?

32. Does the University have a provision for external registration of students?

Yes No

If yes, how many students avail of this provision annually?

33. Is the University applying for Accreditation or Re-Assessment? If Accreditation, name the cycle. Cycle1

Accreditation: Cycle 1 Cycle 2 Cycle 3 Cycle 4

Re-Assessment:

34. Date of accreditation* (applicable for Cycle2, Cycle3, Cycle4 and re-assessment only): NA

Cycle1:(dd/mm/yyyy), Accreditation outcome/Result.....

Cycle 2:(dd/mm/yyyy), Accreditation outcome/Result.....

Cycle 3:(dd/mm/yyyy), Accreditation outcome/Result.....

Cycle4:(dd/mm/yyyy), Accreditation outcome/Result.....

Kindly enclose copy of accreditation certificate(s) and peer team reports(s)

35. Does the University provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated/constituent/autonomous colleges under the university.

Not Applicable

36. Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR).-

Recently constituted

37. Any other relevant data, the University would like to include (not exceeding one page) :

Over the past five years the number of programmes that the University offers has increased from **01 in 2009 to 22 in 2015-16**. During this period, the number of faculty members has increased from **02 to 86** (including temporary faculty members). The growth in the number of students at CUSB over the same period has **31 to 778**.



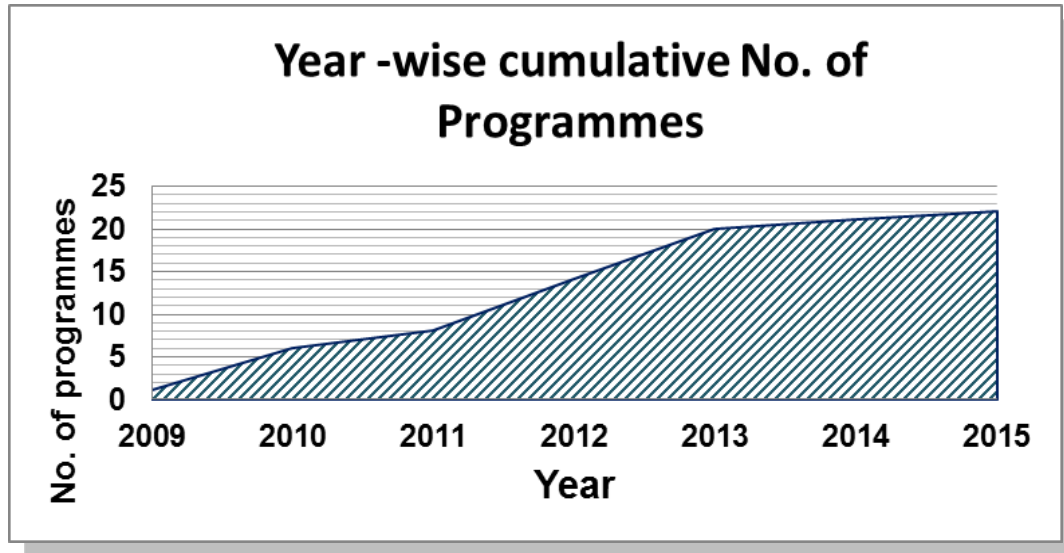
Part-I (B)

Criteria-wise Analytical Report



Criterion I

Curricular Aspects





1.1 Curriculum Design and Development

1.1.1 How is the institutional vision and mission reflected in the academic programmes of the university?

The Central University of South Bihar (CUSB) is established by Central Universities Act, 2009 section (25 of 2009) of the Parliament. The Act provides a legal framework for the University including its academic and administrative functioning. The University is presently located in Patna (BIT Campus, P.O.: B. V. College, Patna - 800014) and Gaya (Mohalla: Vinova Nagar, Chandauti, Police Station: Magadh Medical College, Ward No.-29, Gaya 823001). The Central University of South Bihar is first Central University established in the state of Bihar with the following mission objectives:

“... to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit; to make special provisions for integrated courses in humanities, social sciences, and technology in its educational programmes; to take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research; to educate and train manpower for the development of the country; to establish linkages with industries for the promotion of science and technology; and to pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development.”

The curriculum is designed and implemented taking cognizance of the educational policies of the Central Government, and the global needs, while serving the cause of national development and regional requirements. The syllabus is dynamic and is constantly revamped to keep pace with the rapid developments in various fields of study, scientific and technological advancements, and to meet the demands of academia, industry and society. The University offers academic programmes in conventional face-to face mode of the education for reaching to the students. The culture of academic freedom and flexibility provides immense scope for introducing innovations in the curriculum to achieve the institutional objective, vision and mission of striving for academic excellence.



1.1.2 Does the University follow a systematic process in the design and development of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).

The design and development of the curriculum is a democratic process with all the faculty contributing to the introduction, innovation, and revision of the syllabi. The curriculum is designed fully adhering to the guidelines of the UGC and other national academic organizations like AICTE, NCTE, and BCI. The syllabus is organized in a logical sequence, progressing from basic concepts to more complex themes and latest developments in a graded manner. The syllabus is designed to provide a comprehensive coverage of the subject with emphasis on fundamentals as well as applied aspects. After elaborate discussions on the contents and organization of the syllabus in the respective Expert Committee(s), Boards of Studies, the decisions taken are implemented through the School and Academic Council.

The university is following Choice Based Credit System (CBCS) from its inception in 2009 to provide flexibility for introducing innovative and interdisciplinary programmes, revise the syllabus in tune with the changing demands of the industry and society, in addition to offering a range of optional and elective courses for the students. Each programme is defined in terms of credits that in turn reflect the quantum of syllabus and the number of hours of teaching per week.

Presently the university is offering four Integrated Under Graduate and one vocational programme B.Voc (Arts and Crafts), 16 Post Graduate and 12 Integrated M.Phil-PhD Programmes. The Requirement of Credits to award degree in each programme is as follows –

Integrated Under Graduate Programmes

S No	Name of the Programme	Credits Required
1	Five Year Integrated BA.LLB (Hons) Programme	232
2	Five Year Integrated BSc.LLB (Hons) Programme	232
3	Four Year Integrated BA.BEd Programme	160
4	Four Year Integrated BSc.BEd Programme	160
5	B.Voc Programme	120



Post Graduate Programmes

S No	Name of the Programme	Credits Required
1	MSc Mathematics	76
2	MSc Statistics	80
3	MSc Computer Science	72
4	MTech Computer Science	74
5	MSc Life Science	72
6	MSc Biotechnology	72
7	MSc Bioinformatics	76
8	MSc Environmental Science	72
9	MA Development Studies	78
10	MA Economics	80
11	MA Political Science & International Relations	80
12	MA Sociology	74
13	MA Psychology	74
14	MA English	78
15	MA Hindi	78
16	MA Communication & Media Studies	78

Integrated MPhil-PhD Programmes

S No	Name of the Programme	Credits Required
1	Integrated MPhil-PhD in Biotechnology	40
2	Integrated MPhil-PhD in Environmental Science	40
3	Integrated MPhil-PhD in Life Science	40
4	Integrated MPhil-PhD in Bioinformatics	40
5	Integrated MPhil-PhD in Mathematics	40
6	Integrated MPhil-PhD in Statistics	40
7	Integrated MPhil-PhD in Computer Science	40
8	Integrated MPhil-PhD in Development Studies	40
9	Integrated MPhil-PhD in Economics	40
10	Integrated MPhil-PhD in Political Science & International Relations	40
11	Integrated MPhil-PhD in Hindi	40
12	Integrated MPhil-PhD in Psychology	40



Periodic changes in the curriculum are made based on societal needs that provide a thrust for national development. The current trends in the job market are also considered while framing the syllabus. Feedback from faculty, academic peers, experts from industry, current students and alumni is used in the initiation, review, and redesign of curricula. The feedback obtained from Central and State governments as well as research organizations in India and overseas also help to design and modify the curriculum.

1.1.3 How are the following aspects ensured through curriculum design and development?

*** Employability**

The curriculum design through an equitable proportion of hands-on practical training for skill acquisition and sound theoretical knowledge serves to equip the students to face real-time situations and societal needs. The curriculum attempts to address the needs of various stakeholders such as industries, Government agencies, banking sector, farming corporate, major agro-based industries, insurance sector, etc.

*** Board of Examiners**

After the end semester examination, a committee comprised of invited outside experts and internal members constituted for each discipline look into the level of question paper, updating of the syllabus, evaluation pattern, etc, prior to declaration of final examination result.

*** Innovation**

The university gives a great deal of academic freedom enabling the introduction of new and innovative courses. The university with 16 departments / centres of study is poised to introduce several innovative interdisciplinary programmes. Many of the programmes are possessing summer internship and field visits in their course curriculum, thereby the students are getting good exposure of other societies / institutions and hands-on experience in the fields. Weekly seminars are regular practice of each programme.

*** Research**

The Pre-final and final year Undergraduate students in professional programmes are oriented to research through participation in minor and major projects. In many of the Post Graduate programmes, research component is the mandatory course for which students are required to submit the dissertation as part of credit requirement, and completion of the degree.



Central University of South Bihar Innovation Council (CUSBiC)

The Central University of South Bihar recognises the importance of promoting “Research and Innovation” and to achieve this goal, plans to establish its Innovation Council (CUSBiC). The first step is to hold an interactive session with stakeholders from academia, industry and society. We are hopeful that through such interactions, some key areas for intensive research and innovation may be identified. This exercise is also required to map the real potential of the university to achieve excellence of global standards in some chosen domains and give directions for path breaking research and innovation, searching for solutions that are contextually as well as globally valid.

There is an urgent need to visualize innovative strategies whereby CUSB could connect to the society at large and extend the benefit of its knowledge, expertise and intellectual resources for the betterment of the larger society. As a vibrant institution, CUSB must become a hub for recognizing **Lokvidya** (people’s knowledge) with proper acknowledgement, attribution and reciprocity and establish an open innovation platform for dissemination of innovation. The objective of CUSB is mobilization of CUSB students, faculty and youth for benchmarking the problems, cataloguing the available solutions, identifying new heuristics for meeting the unmet needs of the disadvantaged people and engaging with innovators and other creative people for leveraging their genius.

Proposed Objects of CUSBiC

The university must not get arrested and become a victim of rigid academic boundaries. The philosophy is reflected in the system. The university is evolving and allowing students to choose courses to complete credit requirements and interdisciplinary innovative nature of the academic programmes including internship and visits to real world functionalities in various contexts. In order to achieve stated objective, CUSB would like to connect the following dots.

Social Connect: The faculty and students will work with the community to share social, economic, technological, institutional and educational knowledge and innovations developed by local communities and individuals in different parts of the country. The campus will document, validate and develop a compendium of innovation and best practices which will be shared and even uploaded on the website as open resources. CUSBiC will also organize competitions among students and researchers for identifying innovative ideas,



knowledge about biodiversity, culinary activity and folk tales and songs under cultural exchange of ideas with a view to create a kind of local knowledge register so that communities can track the progress of the growth of local ideas and emergence of new innovations to be checked.

Ecological Connect: CUSBiC will provide institutional platform for the issues of ecological sustainability. CUSBiC will also help in blending the knowledge related to folklore of the past and technologies of the future and thereby creating ecologically responsible mindset.

Industrial Connect: There is a need to foster connections and find avenues for engagement with manufacturing, services, infrastructural and other sectors. The tradition of adjunct faculty from industry and enabling academics to serve through formal or informal ways in industry has to be fostered.

Cultural Connect: Findings of every research based on data from the communities must be shared with the data providing communities in their language and in an easily comprehensible manner. Their knowledge rights should be protected and the benefits from the potential commercial use of their cultural creativity must flow back to them. Acknowledgement, attribution and reciprocity are the fundamental tenets of a responsible and accountable open innovation system.

Policy & Governance Connect: Students and faculty would like to work at all levels tharis, village Panchayats, Districts, State and National level institutions for experimenting with new models of governance with integrity and responsiveness for inclusive growth. Proper exposure of students to the challenges in governance would enable them to contribute in their resolution. CUSBiC may take initiatives to connect social, natural sciences and technology and learn from creative and innovative people and in return also augment their capacity.

Proposed Structure of CUSBiC: The Governing structure of CUSBiC shall be framed by the Executive Council of the university, as per provisions of the university Act. It is proposed to have two levels of CUSBiC functional structure;

(a) The Central University of South Bihar Innovation Council (CUSBiC) will consist of persons from the various social/academic/industrial domains. The council will function as



a Central Committee to augment resources, advise, guide and strategize implementation of the programmes. The council, therefore, has to be of a manageable size.

(b) The CUSBiC Advisers will be highly motivated and creative persons with a global/local presence representing the larger society, industry, academia and CUSB (faculty, alumni and students) to play advisory role in achieving the objectives of CUSBiC.

1.1.4 To what extent does the University use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the University been instrumental in leading any curricular reform which has created a national impact?

The recommendations of the regulatory bodies are given vital importance while framing the curriculum. In each discipline the university follows the Choice Based Credit System (CBCS) and semester pattern. The university over the years has introduced new need-based programmes of study and revised the curricula to suit the needs of society and the local and global demands. The curricula developed by the university are well regarded in academic circles and has also been followed by other institutions.

1.1.5 Does the University interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the University benefitted through interactions with the stakeholders?

The university interacts with industry, research institutes and civil society in the curriculum revision process. The Expert Committees and Boards of Studies in several departments comprise experts from industry and research institutes as members. In addition, industrialists and scientists who visit the university conferences and workshops share their rich experience in suggesting changes and improvements in the curriculum to meet the changing demands in a dynamic world.

1.1.6 Give details of how the University facilitates the introduction of new programmes of studies in its affiliated colleges.

Not Applicable



- 1.1.7 Does the University encourage its colleges to provide additional skill-oriented programmes relevant to regional needs? Cite instances (not applicable for unitary universities).**
Not Applicable

1.2 Academic Flexibility – The university from its inception, values academic flexibility. CBCS is in practice since inception of the university. The students have fairly good choice in selection of courses of studies.

1.2.1 Furnish the inventory for the following:

***Programmes taught on campus**

The President of India in his capacity as the Visitor, in exercise of the powers vested in him under Sec. 27(3) of the Act, 2009 has been pleased to assent to the amendment to Statute 15 of the University (vide letter no. F. 42-26/2009-Desk (U) dated 28th July, 2010). Out of the 14 schools approved and entered in the Statutes of the University, at present 9 schools are functional. School wise details of the Programmes taught on campus at present are as follows –

School of Mathematics, Statistics and Computer Science

Department of Mathematics

Sl. No.	Name of the Programme
1	MSc Mathematics
2	Integrated MPhil-PhD in Mathematics

Department of Statistics

Sl. No.	Name of the Programme
1	MSc Statistics
2	Integrated MPhil-PhD in Statistics

Department of Computer Science

Sl. No.	Name of the Programme
1	MSc Computer Science
2	MTech Computer Science
3	Integrated MPhil-PhD in Computer Science



School of Earth, Biological and Environmental Sciences

Centre for Biological Science

Sl. No.	Name of the Programme
1	MSc Biotechnology
2	MSc Bioinformatics
3	MSc Life Science
4	Integrated MPhil-PhD in Biotechnology
5	Integrated MPhil-PhD in Bioinformatics
6	Integrated MPhil-PhD in Life Science

Centre for Environmental Science

Sl. No.	Name of the Programme
1	MSc Environmental Science
2	Integrated MPhil-PhD in Environmental Science

School of Social Sciences and Policy

Centre for Development Studies

Sl. No.	Name of the Programme
1	MA Development Studies
2	Integrated MPhil-PhD in Development Studies

Centre for Economic Study and Policy

Sl. No.	Name of the Programme
1	MA Economics
2	Integrated MPhil-PhD in Economics

Centre for Political Studies

Sl. No.	Name of the Programme
1	MA Political Science & International Relations
2	Integrated MPhil-PhD in Political Science & International Relations

Centre for Sociological Studies

Sl. No.	Name of the Programme
1	MA Sociology



School of Human Sciences

Centre for Psychological Sciences

Sl. No.	Name of the Programme
1.	MA Psychology
2.	Integrated MPhil-PhD in Psychology

School of Languages and Literature

Centre for Indian Languages (Hindi)

Sl. No.	Name of the Programme
1.	MA Hindi
2.	Integrated MPhil-PhD in Hindi

Centre for Foreign Languages (English)

Sl. No.	Name of the Programme
1.	MA English

School of Media, Arts & Aesthetics

Centre for Mass Communication and Media

Sl. No.	Name of the Programme
1..	MA Communication & Media Studies

School of Education

Department of Education

Sl. No.	Name of the Programme
1.	Four Year Integrated BA.BEd Programme
2.	Four Year Integrated BSc.BEd Programme

School of Law and Governance

Centre / Department - Law

Integrated Under Graduate Programmes

Sl. No.	Name of the Programme
1.	Five Year Integrated BA.LLB (Hons) Programme
2.	Five Year Integrated BSc.LLB (Hons) Programme



School of Vocational Studies

Centre / Department – Vocational Studies Integrated Under Graduate Programmes

Sl. No.	Name of the Programme
1.	Three Year B. Voc Programme (Arts & Crafts)

*** Overseas programmes offered on campus**

Not Applicable

*** Programmes available for colleges to choose from**

Not Applicable

1.2.2 Give details on the following provisions with reference to academic flexibility

a. Core / Elective options –

The curriculum in almost all the programmes comprises three components relating to foundation, core, elective, and practical courses along with research component in the final year. Foundation courses are offered to prepare students for specialized courses. The core courses emphasize on fundamental aspects together with design methodologies and throw open avenues for applications. Students are offered elective courses in their own departments/centres and also by other departments/centres of study. The students have the freedom to choose from a stream of elective courses. The list of elective courses is regularly updated. The proportional partitioning of core and elective courses and other skill oriented courses is tabled below.

School	Programme	Credits			Total
		Core	Elective	Research/ Enrichment Courses	
School of Mathematics, Statistics and Computer Science	MSc Mathematics	52	24		76
	MSc Statistics	72	08		80
	MSc Computer Science	64	08		74
	MTech Computer Science	26	16	32	74
School of Earth, Biological and Environmental Sciences	MSc Biotechnology	39	03	30	72
	MSc Bioinformatics	38	02	32	72
	MSc Life Science	46	04	22	72
	MSc Environmental Science	46	09	17	72



School of Social Sciences and Policy	MA Development Studies	60	08	8	76
	MA Economics	56	16	8	80
	MA Political Science & International Relations	72	08		80
	MA Sociology	62	04	8	74
School of Human Sciences	MA Psychology	50	14	10	74
School of Languages and Literature	MA Hindi	70	04	4	78
	MA English	70	08		78
School of Media, Arts & Aesthetics	MA Communication & Media Studies	56	16	6	78
School of Education	Four Year Integrated BA.BEd Programme	147	13		160
	Four Year Integrated BSc.BEd Programme	153	07		160
School of Law and Governance	Five Year Integrated BA.LLB (Hons) Programme	232	0	0	232
	Five Year Integrated BSc.LLB (Hons) Programme	232	0	0	232
School of Vocational Studies	Three Year B Voc Programme (Arts & Crafts)				120

b. Enrichment courses -

The curricula of both, the professional undergraduate and postgraduate programmes include enrichment courses that enable the students to adapt to the needs of stakeholders. The enrichment courses include allied subjects, soft skill courses such as communication and computer applications, managerial skills and industrial visits.

c. Courses offered in modular form -

The syllabus for each course in a large number of programmes is drawn up in a modular fashion with each sub-module pertaining to a specific aspect of study and each sub-module in turn related to each other.



d. Credit accumulation and transfer facility

Not yet materialized.

e. Lateral and vertical mobility within and across programmes, courses and disciplines

The university does offer lateral mobility in selected programmes in the sense it allows students of one programme to pursue their preferred courses in related programmes and earn the credits required for the degree.

1.2.3 Does the University have an explicit policy and strategy for attracting international students?

Not yet, but has plans to develop explicit policy for foreign students.

1.2.4 Have any courses been developed targeting international students? If so, how successful have they been? If 'no', explain the impediments.

Not yet, but has plans to launch courses, particularly in Pali and Buddhist studies from the next academic session.

1.2.5 Does the University facilitate dual degree and twinning programmes? If yes, give details.

Dual Degree programme – Yes

twinning programmes - No

Yes, the university, through its statutory provision offer dual Degree integrated Under Graduate programmes in Education and Law namely Four year B.Sc B.Ed and BA BEd and Five year BSc LLB and BA LLB.

School of Education

Department of Education

Sl. No.	Name of the Programme
1	Four Year Integrated BA.BEd Programme
1	Four Year Integrated BSc.BEd Programme

School of Law and Governance

Centre / Department - Law

Integrated Under Graduate Programmes

Sl. No.	Name of the Programme
1	Five Year Integrated BA.LLB (Hons) Programme
2	Five Year Integrated BSc.LLB (Hons) Programme



1.2.6 Does the University offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?

No

1.2.7 Does the University provide the flexibility of bringing together the conventional face-to-face mode and the distance mode of education and allow students to choose and combine the courses they are interested in? If 'yes,' give operational details.

No

1.2.8 Has the University adopted the Choice Based Credit System (CBCS)? If yes, for how many programmes? What efforts have been made by the University to encourage the introduction of CBCS in its affiliated colleges?

Yes, The university has adopted Choice Based Credit System (CBCS) in all Integrated UG, PG and Integrated M.Phil-PhD Programmes since its inception. The Central University of South Bihar is not an affiliating university.

1.2.9 What percentage of programmes offered by the University follow:

- i. Annual system - Nil
- ii. Semester system - 100 %
- iii. Trimester system - Nil

1.2.10 How does the University promote inter- disciplinary programmes? Name a few programmes and comment on their outcome.

The university offers inter-disciplinary programmes on diverse fields of study in different departments to promote Social and applied sciences. The list of inter-disciplinary programmes offered by different departments is given below.

Degree	Inter-Disciplinary Programme	Offering Department/ Centre	Offering School
MA	Development Studies	Centre for Development Studies	School of Social Sciences and Policy
MSc	Environmental Sciences	Centre for Environmental Sciences	School of Earth, Biological and Environmental Sciences



1.3.1 During the last four years, how many new programmes at UG and PG levels were introduced? Give details.

***Inter-disciplinary**

Degree	Inter-Disciplinary Programme	Offering Department/ Centre	Offering School
MA	Development Studies	Centre for Development Studies	School of Social Sciences and Policy
MSc	Environmental Sciences	Centre for Environmental Sciences	School of Earth, Biological and Environmental Sciences

*** Programmes in emerging areas
Integrated Under Graduate Programmes**

Sl. No.	Name of the Programme
1.	Five Year Integrated BA.LLB (Hons) Programme
2.	Five Year Integrated BSc.LLB (Hons) Programme
3.	Four Year Integrated BA.BEd Programme
4.	Four Year Integrated BSc.BEd Programme
5.	Three Year B.Voc (Arts & Crafts)

Post Graduate Programmes

Sl. No.	Name of the Programme
1.	MSc Mathematics
2.	MSc Statistics
3.	MSc Computer Science
4.	MTech Computer Science
5.	MSc Life Science
6.	MSc Biotechnology
7.	MSc Bioinformatics
8.	MSc Environmental Science
9.	MA Development Studies
10.	MA Economics
11.	MA Political Science & International Relations
12.	MA Sociology



13.	MA Psychology
14.	MA English
15.	MA Hindi
16.	MA Communication & Media Studies

Integrated MPhil-PhD Programmes

Sl. No.	Name of the Programme
1.	Integrated MPhil-PhD in Biotechnology
2.	Integrated MPhil-PhD in Environmental Science
3.	Integrated MPhil-PhD in Life Science
4.	Integrated MPhil-PhD in Bioinformatics
5.	Integrated MPhil-PhD in Mathematics
6.	Integrated MPhil-PhD in Statistics
7.	Integrated MPhil-PhD in Computer Science
8.	Integrated MPhil-PhD in Development Studies
9.	Integrated MPhil-PhD in Economics
10.	Integrated MPhil-PhD in Political Science & International Relations
11.	Integrated MPhil-PhD in Hindi
12.	Integrated MPhil-PhD in Psychology

1.3.2 What are the strategies adopted for the revision of the existing programmes? What percentage of courses underwent a syllabus revision? (*Annexure III, 476p.*)

The information obtained through feedback from different sources is placed in the meetings of the Board of Studies / Expert Committees. The feedback obtained from students, alumni, employer, community, and industry are given due weightage in framing the curriculum. The feedback given by students and stakeholders is the basic matrix for identifying shortfalls in curricular content and reinforcements needed therein. The experts analyze the syllabus and any significant modifications suggested are incorporated in the curriculum. The syllabus is periodically revised to cater to the modern employment opportunities of the job market. The syllabi of almost all the programmes are being revised in a phased manner. Most of the courses are subject to revision across a specific timeframe to keep pace with new developments. The extent of revision ranges from 30- 70%.



1.3.3 What are the value-added courses offered by the University and how does the University ensure that all students have access to them?

Communication skills- It is open for the students of all programmes.

1.3.4 Has the University introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

Yes. A pattern of equal weightage is ensured for pure and applied aspects for the various programmes in the University. Wide opportunities are given to students to develop their proficiency in theory, to gain practical knowledge in their courses of study, to acquire computer skills and to improve their I.Q. The university tries to impart multiple skills, such as, learning skills, computer skills, technical and managerial skills and marketing skills to the students. Online material is used to supplement classroom teaching and students are given problems that call for reasoning and logical thinking.

1.4 Feedback System

1.4.1 Does the University have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

The university has developed a mechanism to obtain feedback from students both on the course content and teaching methodology. The students at the end of each semester submit, online / off line, a course assessment proforma detailing the merits and demerits of each course. These comments are reviewed and considered while revising the syllabus.

1.4.2 Does the University elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and its impact.

The feedback on curriculum from the national and international faculty is obtained through mail or online discussions. When an international faculty visits the departments to attend workshops/seminars, their suggestions are sought for the improvement of syllabi. The external experts of Board of Examiners at the end of each semester also review the syllabus and offer their remarks.



1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.

Not applicable

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the University in ensuring the effective development of the curricula?

Besides students the university also invites feedback from members of the Board of Studies and Board of Examiners, for quality sustenance and quality enhancement measures.

Additionally, the faculty have been attending various refresher and orientation programmes, seminars, workshops to be aware of the latest changes in academic area, thereby with their exposure curriculum shall be enriched accordingly.

1.4.5 Best Practices in Curricular Aspects

The following can be considered as the best practices in curricular aspects being adopted by the CUSB:

- Decentralization, total freedom and autonomy to the faculty teaching the courses to devise and revise their courses as often as needed and there is hardly any gestation period for implementation of the revised course/programme.
- Possibility to students for selecting Choice Based Credits as per their interest and need.
- Wide range of electives, add-on and enrichment skill courses to choose from.
- Encouragement to students for using 9:00 am to 6:00 pm available Cyber library to not only enrich their learning experiences with the latest knowledge developments but also to challenge their teachers to compel them to frequently update their syllabi.
- University provides OPAC –Intranet facility to faculty members for using 24 X 7 to acquaint them from latest knowledge development.

Criterion II

Teaching, Learning and Evaluation



Prof. H. C. S. Rathore, VC delivering the presidential address at the World Statistics Day Function on 20 Oct. 2015 at the CUSB Patna Campus



2.1 Student Enrolment and Profile

2.1.1 How does the University ensure publicity and transparency in the admission process?

Information regarding the admission process is posted in the Central University of South Bihar website. To ensure publicity and transparency in the admission process, admissions to the various programmes of study are advertised in leading newspapers in English and Hindi throughout India. University also release press release in media at regular intervals. The institution also publishes the selected list of candidates in the university website. The pre-admission procedure is schematically illustrated below

	Step -1	Step -2	Step -3	Step -4	Step -5
Stage-I	Call for Applications	Scrutiny of Applications	Question Paper Setting and Key preparation	Online Examination	Result announcement of Online Examination
Stage-II	Written examination for long and short answer type question at Department/Centre level for the shortlisted candidates				
Stage-III	Interview, Counselling				
	Announcement of the list of selected candidates for the admission				

2.1.2 Explain in detail the process of admission put in place by the university. List the criteria for admission: (e.g.:

- (i) **merit:** As per eligibility criteria fixed by the university
- (ii) **merit with entrance test:** Minimum eligibility criteria with marks obtained in online test (Multiple Choice Test)
- (iii) **merit, entrance test and interview,** Minimum eligibility criteria with marks obtained in online test + written test subject related (Conventional Type)
- (iv) **common entrance test conducted by state agencies and national agencies-** By the Tata Consultancy Ltd.and University it self
- (v) **other criteria followed by the University (please specify):** By following reservation policy and other Rules and Regulations fixed by the university.

Admissions are put in place by common entrance test conducted by CUSB called as (Central University of South Bihar Entrance Test -CUSBET). The Central University of South Bihar conducts an on line entrance test though out India at different centres.



2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.

Not applicable

2.1.4 Does the University have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

To decide policy matters on admission and to oversee the admission process, there is a 'University Admission Committee'. The Admission Committee may take appropriate steps for admission in various programmes. The admission process and student profile are reviewed annually by the admission committee and also by the Academic Council. The process is thoroughly discussed. If required the eligibility criteria are modified for improvement of the process.

2.1.5 What are the strategies adopted to increase / improve access for students belonging to the following categories:

- * **SC/ST**
- * **OBC**
- * **Women**
- * **Persons with varied disabilities**
- * **Economically weaker sections**
- * **Outstanding achievers in sports and other extracurricular activities**

The university is co-educational and open to candidates from all over India. For all courses, 15 % seats are reserved for Scheduled Caste (SC), 7.5 % for Schedule Tribes (ST), 27 % for non-creamy layer OBC candidates. Apart from this, candidates belonging to physically challenged group (i.e. visual handicapped, hearing impaired and orthopedically handicapped category), Kashmiri migrants, and wards of Defence Personnel are also entitled for supernumerary reservation as per UGC/GoI guidelines.

Fee concession is provided in the cost of application for admission. The prospectus given to the aspirants elaborate the various tuition fee concessions and exam fee concessions extended by the government to the disadvantaged communities and economically weaker sections of society. A special cell for SC/ST students functions in the university.

Scholarships e.g. single girl child scholarships as announced by Government are provided. Special measures such as scholarships from funded projects are used to attract outstanding achievers and persons with disabilities. Information on various endowment scholarships given by the university is duly provided. Efforts are made to create access to higher education for disadvantaged groups, as per Government norms.



2.1.6 Number of students admitted in University departments in the last four academic years:

Categories	2011-12		2012-13		2013-14		2014-15		2015-16	
	M	F	M	F	M	F	M	F	M	F
SC	6	4	10	4	18	05	43	15	18	52
ST	0	2	1	1	01	01	4	3	1	1
OBC	25	9	37	22	81	55	91	43	79	66
General	23	23	48	37	100	66	97	117	108	101
Total	54	38	96	64	200	127	235	178	222	186

*M – Male *F - Female

2.1.7 Has the University conducted any analysis of demand ratio for the various programmes of the University departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase / decrease.

Programmes	Number of applications	Number of students admitted in 2015	Demand Ratio
UG	1642+14	171	1:10.96
PG	661	228	1:3.27
Integrated MPhil-Ph.D.	182	9	1:20.22

2.1.8 Were any programmes discontinued / staggered by the University in the last four years? If yes, please specify the reasons.

No

2.2 Catering to Student Diversity

2.2.1 Does the University organize orientation / induction programme for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.

Yes; There is a convention of organizing induction cum orientation programmes for freshers before the actual commencement of the programme in the university under the Chairmanship of the Vice Chancellor. The purpose of this orientation programme is to not only to welcome the newly admitted students but also to make them aware of the ethos and traditions of the university, besides giving detailed information of facilities, rule, code of conduct and expectations of the university. In these programmes, both



parents and students are explained the details of the programme in which they got enrolled and the facilities available etc. Each department / centre of the university also organizes induction program for freshers of various programs.

2.2.2 Does the University have a mechanism through which the “differential requirements of the student population” are analysed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?

Entrance test conducted at the time of admission helps to assess student’s knowledge base, skills and their needs. Further, during the first week of the commencement of the teaching programme, a few classes are devoted to evaluate the differential requirements of the students. Based on this analysis, students who need extra support are identified for remedial classes. Bridge courses are offered in certain departments especially where there is an opportunity in the curriculum for the students who hail from educationally disadvantaged classes.

After the first internal assessment test, the students who secure less than 50% of marks are considered slow learners and the rest are treated as advanced learners. The slow learners are given remedial classes or special lectures both in theory and practical, in order to motivate them and develop interest in their chosen subjects. The fast learners and brighter section of students are motivated to appear for competitive examinations. They are provided computer and Internet facilities to update their knowledge and skills. They are advised to attend workshops and summer courses conducted at the university or elsewhere. The students with special aptitude for research are motivated to work on individual mini projects funded by grant agencies.

2.2.3 Does the University offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?

Remedial classes are held to help the weak students based on the feedback taken from the students. If majority of the students are facing problem in a particular subject or a paper ,specialized classes are arranged from either in house or even subject experts are invited from outside to assist the students.

If students request for some special course or a workshop which assist them in their curriculum we ensure that those value added workshops are conducted for them.



Special English classes are held to assist the students facing problem in the language so as to assist them understanding the curriculum better.

2.2.4 Has the University conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc.? If yes, what are the main findings?

Yes. The main impediments to academic growth of the students especially from the disadvantaged and economically disadvantaged sections of the society relate to lack of proficiency in oral communication and writing skills and lack of aptitude and attitude to learning. The university continues to support them with a host of relief measures that include

- Granting scholarships (both government and endowment sponsored)
- motivation of slow learners by the student counsellors to improve their aptitude and attitude towards learning
- organising classes for proficiency in oral communication and writing skills
- If counseling is needed by students we provide them mentors to assist them in their problems. The differently-abled students are provided adequate infrastructure facilities in the form of wheel chairs and the use of a scribe in examinations.

2.2.5 How does the University identify and respond to the learning needs of advanced learners?

- Learning needs of the students are assessed by getting constant feedback from the learners at the beginning and at the end of every semester.
- The advanced learners are given extra assistance by providing supplemental information needed for their future prospects. They are also given additional project work dealing with advanced methodologies and approaches.
- They are encouraged to participate in seminars and symposia conducted by other institutions and motivating them to publish technical papers in reputed journals.

2.3 Teaching-Learning Process

2.3.1 How does the University plan and organise the teaching, learning and evaluation



schedules (academic calendar, teaching plan, evaluation blue print, etc.)?

University Academic Calendar – Before commencing the New Year university authorities in consultation with faculty members prepare university academic calendar & as per provision of MHRD / UGC. The reopening and closing dates and duration of vacation and intermittent spell of holidays are finalized in consonance with the university authorities. Additional working days or amendments in the academic calendar are also informed well in advance to students through circulars. Further, the university publishes a diary giving all details.

Academic Calendar - The heads of the departments / centre of study in every school draw the academic calendar to accommodate the process of teaching-learning of theory, practical and field classes for both odd and even semesters. The calendar also caters to the need of in-plant training, village stay, educational tours, and co-curricular activities.

Teaching Plan - The staff offering different courses prepares weekly lesson plans and maintain a record of the weekly schedules to ensure a smooth coverage of the syllabi. The course plan in practical courses is more flexible to suit changing needs. Manuals available in each laboratory serve to expose the facilities and capabilities of each instrument/equipment.

Evaluation - ‘Continuous Internal Evaluation’ is the central feature of the evaluation system of this university. A teacher who offers the course is the best person to assess performance of the students. However, there is mandatory mid semester and end semester evaluation and to ensure transparency, fair-play and accountability, appropriate mechanisms have been devised.

2.3.2 Does the University provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

Yes; The course outline and detailed syllabus for every course is defined precisely and provided in the hand book issued to students at the beginning of the programme. The allotment of courses and allocation of teachers for specific academic programmes is



well defined even before commencement of the semester. The weekly logs are also maintained by some faculty reflect time management and effective coverage of the syllabi in addition to exploring innovative assignments in each unit.

2.3.3 Does the University face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.

No, except for the loss of working days caused by natural calamities, the curriculum plan goes as per schedule.

The institutional measures to overcome challenges include additional classes on Saturdays and extra teaching hours during weekdays.

2.3.4 How learning is made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

Radical change in the method of learning has been brought to make learning more student-centric.

Discussion sessions: Interactive discussion sessions are conducted to inculcate the depth of understanding, knowledge and communication among the students. During the sessions, the inquisitive nature of the students is enriched by providing the extra and useful information.

Presentations: The habit of deep thinking is inculcated among the students by teaching them through presentations using LCD projectors. It arouses interest of the students in the subject and also gives a better grasp of the subject. The students are encouraged to prepare their own presentations and present in front of the teachers and their peer group. This helps to build up their self-confidence, broaden their horizon and prepares for future competitions. Alternatively, students are given assignments on various topics which they can even submit on-line.

Projects: The students are involved in various projects to enhance their scientific aptitude and practical knowledge by providing them hands-on experience of the theoretical concepts.



Class tests/Open book test: The class tests/ open book test and discussions are conducted after the completion of each topic for the clarity of concepts and better understanding of the next topic.

Group Discussions: Group discussion are held regularly where students get opportunity to think from different angles and incorporate all these points while writing answers in the exam. It not only inculcates team spirit but also improves their communication skills while sharing opinions and exchanging views with others, enables to think in divergent directions to generate more points and a good presentation of the topic and enhances analytical ability.

Lectures and Interaction with eminent experts: Each department society invites eminent speakers from diverse fields each semester. This enables the student to learn about the various advancements, career opportunities and interact directly with the experts.

Students use this platform for clarifications, discussions, sharing of ideas/opinions and this practice is being followed at CUSB since inception.

List of participatory learning activities adopted in general are,

- Assignments on specific topics for self-study.
- Seminars with effective use of audiovisuals and improving communication skills.
- Project report preparation and submission
- Providing hands on experience to students with respect to instrumentation, survey, computing, search tools, sampling and specimen preservation.
- Problem solving exercises in the laboratory / industry / field / bedside clinical discussion.
- Extramural and cultural programmes to nurture social aspects of the students and appreciate heritage, tradition, culture, and values.
- Case studies, simulation study, management games, small and medium business exposure, industrial visit, meet the executive program, soft skill development programmes, quiz, elocution, debate and leadership camps.

2.3.5 What is the university's policy on inviting experts / people of eminence to deliver lectures and/or organize seminars for students?

- University permits and encourages teaching staff to organize national /



international seminars, conferences, workshops etc. which provides a platform to invite experts / people of eminence to deliver lectures and share their experiences.

- Eminent professors/scientists are invited every year to departments to deliver lectures on current topics under the auspices of Endowment Lecture Schemes, UGC-SAP visiting fellow grants, etc.
- Eminent scientists are also invited to deliver guest lectures by the respective research societies in various faculty/departments.
- Some of the departments accruing benefits from their alumni who have been working in various fields, are also invited to share their experience in an interactive forum organized by alumni associations.

2.3.6 Does the University formally encourage blended learning by using e-learning resources?

The free access intranet connection in the university offers an interactive facility among the departments / centres of study to share and support each other's needs. It provides an impetus to inter-disciplinary research and availing the database for investigative exercises in each other's domain. The students can enjoy the benefits of open source learning materials, online educative resources and special purpose software.

2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching?

- Access to internet facilities
- Monographs, latest books, journals with impact factor etc., in the library for reference
- Exposure through national and international seminars, conferences, and workshops
- The virtual laboratory facility floated in the web by UGC and other premier institutions.
- The open educational resources available through web are assessed by every course teacher and are recommended to the students for further reference after considering its authenticity.



- The e-journals are made available to the student from the Central Library.
- Staff have access to e-resources such as UGC-INFONET, EBSCO, AGRICOLA, CABI

2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes?

No

2.3.9 What steps has the University taken to orient traditional classrooms into 24x7 learning places?

Even in rented building CUSB has been able to orient traditional classrooms into multi-media classes.

2.3.10 Is there a provision for the services of counsellors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.

Psychological counselling and guidance services: Like physical health, mental health determines efficiency and productivity. Mental health is critically important for teaching learning process, creativity, and congenial environment in academic institutions. The university adopts a forward looking approach and institutes psychological counselling and guidance services for students, faculty and employees. Innovative programmes like 'Crises Intervention Programmes' and 'Community Mental Health Programme' are planned to be developed. To facilitate learning, the motto of "Learning Together" is encouraged and practiced.

2.3.11 Were any innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?

Besides the classical teaching methods of class room teaching which includes PPT presentation and projects, the university has also adopted the following innovative methods of teaching:

- The students are provided desktops for use in the classrooms.



- The university encourages the students to do summer projects through ELITE (Education in a Lively, Interactive Training Environment).

All interested students to take on summer projects under a mentor teacher during vacations i.e. June and July. Provides first exposure to diverse research possibilities and helps them learn various laboratory techniques and skills, do data collection through field studies, conduct surveys, interact with various external field experts, exposure to current research, inculcate habit of reading research journals and get an opportunity to execute their innovative ideas into practice. The programme designed has been an experiential educational opportunity and add to the student's knowledge base in their major or career field of interest.

- Academic tours: One of many unique programmes initiated for second year students, allows students to undertake excursions, educational tours or field trips accompanied by their classmates and faculty. This programme is funded solely by the university.

In the past 4 years students have undertaken excursions, educational trips, field trips etc. to enhance their knowledge. e.g. Bio Environmental Science student & faculty excursion tour Valmiki Nagar Tiger Reserve, Yamuna Biodiversity Park, Delhi & Sultanpur National Park, Haryana and Mass Communication & Media Student and faculty visited Bangalore.

- Conferences/Workshops
- CUSB makes special efforts to encourage the faculty to adopt new and innovative approaches by organizing several conferences/workshops.

e.g. – Annual Development Meet since 2010

-National Conference on Ecosystem and their Management recent trends and future perspective.

International Conference on Recent Advances Computer Science and Engineering.

International Conference on Recent Advances in Mathematics, statistics and Computer Science.





All these initiatives give exposure to a wide range of experiences, to enable them to understand and appreciate real-life situations and problems.



2.3.12 How does the University create a culture of instilling and nurturing creativity and scientific temper among the learners?

The CUSB is striving to inculcate among learners a culture of creativity and scientific temper by promoting them to work in well-established laboratory during summer internship, organizing conferences, competitions and exhibitions. Bringing research in to the classroom is one of the visions of the university. We promote active participation of students in research projects as a major co-curricular activity.

Students are allowed to come up with innovative ideas for their dissertation work and they are encouraged to do research for their master dissertation. CUSB has become a research hub encompassing all major academic disciplines. The students are inspired and motivated to explore science. The university provides a conducive environment and openings of newer academic opportunities, in the form of a large number of research projects undertaken by the faculty or arranging summer programmes and training workshops. Various research activities carried by the university are: Education in a Lively, Interactive Training Environment: CUSB promotes and institute awards to students under this programme. These allow all interested students to take on projects under a Mentor teacher during vacations i.e. June and July. Provides first exposure to diverse research possibilities and helps them learn various laboratory techniques and skills, do data collection through field studies, conduct surveys, interact with various external field experts, exposure to current research, inculcate habit of reading research journals and get an opportunity to execute their innovative ideas into practice. The programme designed has been an experiential educational opportunity and add to the student's knowledge base in their major or career field of interest. Centre for Environmental Sciences started this programme and 20 students got this training and is trained under this programme.

Sl. No	CUSB students, participating in Education in a Lively, Interactive Training Environment, programme	
1.	 <p>CUSB students, faculty along with students and faculty of Nalanda University</p>  <p>CUSB students, with Scientists of Yamuna Biodiversity Park, Delhi</p>	 <p>CUSB students, in Sanjay Gandhi Biological Garden with INSA best teacher awardee Prof. T. R. Rao, Visiting Professor, IISER, Mohali</p>  <p>Students and faculty at Sultanpur National Park, Haryana</p>

University is planning to support selected students to conduct research under internal schemes like ‘**CUSB Innovation Council (CUSBiC)**. This exercise is also required to map the real potential of the university to achieve excellence of global standards in some chosen domains and give directions for path breaking research and innovation, searching for solutions that are contextually as well as globally valid.

Central University of South Bihar Innovation Council (CUSBiC) will consist of persons from the various social/academic/industrial domains. The Council will function as a Central Committee to augment resources, advice, guide and strategize implementation of the programmes. The Council, therefore, has to be of a manageable size.

CUSBiC Advisers will be highly motivated and creative persons with a global/local presence representing the larger society, industry, academia and CUSB (faculty, alumni and students) to play advisory role to achieve the objectives of CUSBiC.



2.3.13 Does the University consider student projects mandatory in the learning programme? If yes, for how many programmes have they been (percentage of total) made mandatory?

Yes; The University considers student projects mandatory in the learning programme; in all programmes the project work is mandatory and the last semester for all master programme has been reserved for project work that bears 10-16 credits.

In many master programmes project works have been mandatory. CUSB has also taken an initiative to promote research by undergraduate students so that they can take informed decisions. Therefore research component has been added in undergraduate syllabi also.

Role of faculty in facilitating such projects: Faculty members are involved in all innovative projects executed by the students. Students comes up with innovative ideas, faculty members discuss about the feasibility, originality and validity of the methods to be followed and objectives to be achieved. According to specialty faculty act as mentor and the project is executed within the university with available resources. If required, students are also allowed to work out side institute under the mentorship of CUSB faculty.

2.3.14 Does the University have a well-qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?

Yes, it has Board of studies constituted by the Academic Council for each Department/Center/programme. Whenever required guest faculty are invited to meet the requirements of the curriculum.

2.3.15 How are the faculty enabled to prepare computer-aided teaching/ learning materials? What are the facilities available in the University for such efforts?

The faculty uses the department computers and LCDs for preparing power point and other teaching materials. Facilities such as audio visual aids, microphone, LCD projector, high resolution cameras, digital document camera, language speech lab, LCD, tape recorder and television are available in this perspective.



2.3.16 Does the University have a mechanism for the evaluation of teachers by the students / alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?

Evaluation feedback is received from students regularly for all the courses at the end of each semester. The pointers raised serve to improve the existing teaching methodology and innovate better teaching practices. The alumni are regularly contacted to identify the strengths and weaknesses and the necessary changes incorporated periodically in the curriculum.

2.4 Teacher Quality

2.4.1 How does the University plan and manage its human resources to meet the changing requirements of the curriculum?

The university promotes professional development of the teaching and non-teaching staff to the greatest possible extent. The university is planning to constitute a Professional Development Committee which will look after professional development of teaching faculty. In addition to this, the university also organizes national and international level seminars/conferences, which also helps in professional enrichment of the faculty. Further, university grants study leave to the staff for perusing higher degrees like Ph.D./ postdoctoral programme as per the UGC norms with full pay and allowances and allows the teaching faculty to attend orientation/ refresher courses/ training programmes organized by various academic staff colleges/ departments. The university allows non-teaching staff to attend skill development programmes.

The university makes special efforts to encourage the faculty to adopt new and innovative approaches by organizing several conferences/workshops.

The faculty are encouraged to attend the various workshops/seminars/talks/faculty development programme etc. organized by the other institutes in India to upgrade their knowledge and know about the coming trends. Skill enhancement is regularly carried out by organizing workshops promoting faculty to attend Orientation programmes/ faculty development programme and entrepreneurship development programme.

2.4.2 Furnish details of the faculty

Highest Qualification	Professors		Associate Professors		Assistant Professors		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.							
Ph.D.			7		36	8	52
M.Phil.					1	1	2
PG					6	2	8
Temporary teachers							
Ph.D.	1				7	2	10
M.Phil.							
PG					2		2
Part-time teachers							
Ph.D.							
M.Phil.							
PG							

2.4.3 Does the University encourage diversity in its faculty recruitment? Provide the following details (department / school-wise).

Dept./School	% of faculty from the same University	% of faculty from other Universities within the State	% of faculty from Universities outside the State	% of faculty from other countries
Mathematics			100%	
Statistics			100%	
Computer Science / M.Tech			100%	
Env. Science		20%	80%	
Bioinformatics			100%	
Biotechnology		20%	80%	
Life Science			100%	
Psychology			100%	
Education			100%	
Development Studies			100%	
Political Science			100%	
Sociology			100%	
Economics			100%	
CMS			100%	
Law			100%	
English			100%	
Hindi		20%	80%	



2.4.4 How does the University ensure that qualified faculty are appointed for new programmes / emerging areas of study (Bio-technology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)? How many faculty members were appointed to teach new programmes during the last four years?

The university ensure the qualified faculty are appointed in new programme through making policy by well qualified nationally renowned expert from all over India, screening research output of the applicant and inviting confidential comments from the expert and referees; Three level of screening is considered compulsory; publication in reputed journals, training workshop/ participation in conferences related to emerging areas and interaction with experts.

According to available resources the university started new programme related to emerging areas of study such as Bio-technology, Bio-informatics, and Communication mass Media Studies etc. Some part of Nanotechnology is being taught by faculty in Physics department. This is newly founded central University all faculty have been appointed within the last four years. More than a dozen faculty members have Post doctoral experience abroad.

2.4.5 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the university?

No such Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the University.

2.4.6 What policies/systems are in place to academically recharge and rejuvenate teachers (e.g. providing research grants, study leave, nomination to national/international conferences/ seminars, in-service training, organizing national/international conferences etc.)?

The university has always encouraged its faculty to undertake research and present their work. Budgetary provisions along with the guidelines are in place to provide financial assistance for attending conferences. Provisions for study leave for the faculty (up to 10%) exist to pursue higher qualification. The university is planning to



constitute a Professional and Academic Development Committee which will be responsible to screen and recommend the faculty members to attend orientation/refresher/seminars/ workshops/conferences.

Faculty is also permitted to take up any assignments offered by other university and other institutions in India and abroad.

2.4.7 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?

The university cultivates a healthy competitive environment among the faculty to achieve recognition at the state, national and international level for excellence in teaching.

2.4.8 How many faculty underwent staff development programmes during the last four years (add any other programme if necessary) (Annexure VI 478-479p.)

Academic Staff Development Programmes	Number of faculty
Refresher courses	04
HRD programmes	--
Orientation programmes	27
Staff training conducted by the university	--
Staff training conducted by other institutions	--
Summer / Winter schools, workshops, etc.	03

2.4.9 What percentage of the faculty have:

* been invited as resource persons in workshops / seminars / conferences organized by external professional agencies? - **10.46%**

*participated in external workshops / seminars / conferences recognized by national / international professional bodies? – **31.39%**

* presented papers in workshops / seminars / conferences conducted or recognized by professional agencies? – **32.55%**

*Teaching experience in other universities / national institutions and other institutions? - **25.58%**

*Industrial engagement? - **02.32%**





*International experience in teaching?- **01.16%**

2.4.10 How often does the University organize academic development programmes (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process?

(Give details of workshops/training programmes/sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.)

The university frequently organizes workshops/training programmes/sensitization programmes with focus on capacity building in terms of curriculum development, teaching-learning methods, examination reforms, content / knowledge management, List of workshops/training programmes/sensitization programmes conducted/organized with focus on curriculum development, teaching-learning methods, examination reforms, and content / knowledge management last four years:

Sl. No.	Details	Organizer department/ Centre	Date	Photograph/news report
1	Annual Development meet since 2010	Centre for Development Studies	Since 2010	
2	Ecomeet	Centre for Environmental Sciences;	April, 2013	
3	Eco club function	Centre for Environmental Sciences;	March 2013	

<p>4</p>	<p>National Conference on Aquatic Ecosystem and their management: Recent trends and future perspective”</p>	<p>Centre for Environmental Sciences;</p>	<p>21-23 March 2014.</p>	<p>रिसर्च के ढेरों आइडिया दे गया कांफ्रेंस सीक्यूडी की तीन दिवसीय नेशनल कांफ्रेंस कांफ्रेंस प्रोफेसर राम कुमार और राजीव रंजन ने मंडे कोण पास देश भर से आये विद्यार्थियों ने साझा किये विचार काका विद्यार्थियों का अपने देश में जीव विज्ञानियों की अनुसंधान के विचार प्रस्तुत करने और विचार को प्रसारित करने का अवसर प्राप्त हुआ। सीक्यूडी के प्राध्यापक विद्यालयालय द्वारा आयोजित नेशनल कांफ्रेंस का आयोजन प्रोफेसर राम कुमार और राजीव रंजन ने मंडे कोण पास देश भर से आये विद्यार्थियों ने साझा किये विचार का अवसर प्राप्त हुआ। सीक्यूडी के प्राध्यापक विद्यालयालय द्वारा आयोजित नेशनल कांफ्रेंस का आयोजन प्रोफेसर राम कुमार और राजीव रंजन ने मंडे कोण पास देश भर से आये विद्यार्थियों ने साझा किये विचार का अवसर प्राप्त हुआ। विचार रहे थे लैंग्विजर लैंग्विजर के अर्थों में जीव विज्ञान के विचार को प्रसारित करने का अवसर प्राप्त हुआ। सीक्यूडी के प्राध्यापक विद्यालयालय द्वारा आयोजित नेशनल कांफ्रेंस का आयोजन प्रोफेसर राम कुमार और राजीव रंजन ने मंडे कोण पास देश भर से आये विद्यार्थियों ने साझा किये विचार का अवसर प्राप्त हुआ। गंगा में खड़े लैंग्विजर गंगा में खड़े लैंग्विजर के अर्थों में जीव विज्ञान के विचार को प्रसारित करने का अवसर प्राप्त हुआ। सीक्यूडी के प्राध्यापक विद्यालयालय द्वारा आयोजित नेशनल कांफ्रेंस का आयोजन प्रोफेसर राम कुमार और राजीव रंजन ने मंडे कोण पास देश भर से आये विद्यार्थियों ने साझा किये विचार का अवसर प्राप्त हुआ।</p> 
<p>5</p>	<p>Personality development workshop on “Improve to prove”</p>	<p>Career Counselling and placement cell</p>	<p>October’ 2012</p>	
<p>6</p>	<p>International conference on Recent Trends in Mathematics, Statistics and Computer Science</p>	<p>Jointly organized by Department of Statistics, Mathematics and Computer Science</p>	<p>29-31 May 2015</p>	
<p>7</p>	<p>International conference on Recent Trends in Computer Science and Engineering</p>	<p>Department of Computer Science</p>	<p>8-9th Feb, 2014</p>	
<p>8.</p>	<p>First International Conference on Human Implications of Biotechnology (ICHIB-2016)</p>	<p>Centre for Biological Sciences</p>	<p>To be held on 12th -14th Feb, 2016</p>	



2.4.11 Does the University have a mechanism to encourage – NO

- * Faculty : Mobility of faculty between universities for teaching?
- * Faculty exchange programmes with national and international bodies?

If yes, how have these schemes helped in enriching the quality of the faculty?

2.5 Evaluation Process and Reforms

2.5.1 How does the University ensure that all the stakeholders are aware of the evaluation processes that are in place?

The evaluation process set up by the university is displayed prominently and notified to all stake holders and is updated time to time. The university prospectus gives the detailed information about the evaluation process. The students are also informed about the evaluation process i.e. distribution of marks for assignments, tests, projects etc on the Orientation Day of the university. The evaluation process is discussed from time to time in the class by the concerned teachers. The marks of internal assessment are shown to the students after each assessment in each semester.

To ensure transparency, the students are given opportunity screen their evaluated answer scripts in the case of internal assessment.

Circulars/notifications are regularly emailed to the faculty to keep track of various guidelines/processes.

2.5.2 What are the important examination reforms initiated by the University and to what extent have they been implemented in the University departments and affiliated colleges? Cite a few examples which have positively impacted the examination management system.

The university has put several mechanisms in place to ensure that the examination system is fool proof. Preparation of an Ordinance/Manual for the conduct of examinations is an effort in that direction. The ordinance defines the roles and responsibilities of all the stakeholders, protocols and procedures to be followed, and steps to be taken at all levels in the conduct of the examinations. All the forms/proforma for use in the examination process have been drawn out meticulously in standardized formats. Measures to curb malpractices have also been listed together with the penalty and punishment. Board of Examiners including external examiners is



appointed for rechecking to maintain fairness.

Central University of South Bihar conduct an on line Entrance Test (**Central University of South Bihar Entrance Test -CUSBET**) though out India at different centres for admissions to the various programmes offered in the university.

2.5.3 What is the average time taken by the University for Declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode / media adopted by the University for the Publication of examination results (e.g. Website, SMS, email, etc.).

Generally one to four weeks after the final examination, the results are published in the university websites, besides, publication through university and department level notice boards.

2.5.4 How does the University ensure transparency in the evaluation process? What are the rigorous features introduced by the University to ensure confidentiality?

The university ensures transparency in both internal and final evaluation. Internal assessment is done based on the mid semester exams, in which the answer scripts are returned to the students for verification. Evaluation is done by external and internal examiners chosen at random for the final exams and the students are allowed to go for re-totalling, if any discrepancies arise. Mechanisms are now in place to seek reevaluation. To ensure confidentiality: (i) dummy number is adopted in post examination process, (ii) question despatched by the setter is opened in the confidential room rather than by the addressee i.e., Controller of Examinations, (iii) surveillance camera is fixed in evaluation hall, OMR scanning, paper sorting hall, etc.

2.5.5 Does the University have an integrated examination platform for the following processes?

Pre-examination processes – Yes. The examination section works in integration with Co-ordinator and centre / department heads to schedule the examinations. Schedule of mid semester and end semester examinations are announced before beginning of the semester in the Academic calendar. Student lists are prepared after considering their credit of attendance and except candidates lacking attendance credit below 75%, who are not allowed to sit for examinations, others roll is prepared and announced. Arrangement for Invigilators, Squad and Attendance sheet are made well in advance.



Examination process – All the examinations are held at respective classroom of the programme to check the malpractices and to ensure transparency. The hall schedule and other arrangements for students are well prepared and announced in advance. The examination materials and logistics are centrally provided by the office of the Controller of Examinations involving secretarial staff whereas invigilation is taken care of by teaching staff.

Post-examination process – All the attendance details are checked precisely on the day of examination and the data are entered for comparison. This helps to cross check the procedure and is followed until the process of mark registration and mark list preparation is completed. The evaluation of answer scripts is also done by respective class instructor. Evaluated answer scripts are shown to students before Board of the Examiners meeting. There is enough scope for student to appeal before Board of the Examiners regarding under marking.

Board of the Examiners - The DC / CC, constituted by the Chair, Academic Council, shall organize teaching of courses and propose four (4) names of external members and one member of DC / CC for the Board of Examiners (BoE) for the end-semester examination. The BoE shall be approved by the Chair, Academic Council. The BoE shall review, in particular, the quality of the questions, whether these cover the syllabus, and the level of markings (under-marking / over-marking) in the answer scripts. The BoE will ensure fairness of evaluation by going through the evaluated scripts / assignments, reports of internal / continuous assessment, etc. The BoE shall also conduct viva-voce / practical, if necessary, as required by the nature of the course. The evaluation / grades approved by the BoE shall be considered as final. The external member(s) of BoE shall submit a confidential report to the Controller of Examinations.

The Board of Examiners shall consist of two external and one internal members, at least two of whom (one internal and one external) must be present to conduct the evaluation and finalize the assessment and submit it to the Controller of Examinations for declaration of the results.



2.5.6 Has the University introduced any reforms in its Ph.D. evaluation process?

If the student of the MPhil-PhD integrated programme who has secured at least Grade 'B+' (for General) or 'B' (for SC / ST / PH) in the MPhil course work, and successfully completed the MPhil dissertation by the 3rd semester, and is willing to pursue the PhD programme of this university s/he may apply for admission in Ph.D. in the 4th semester. A student who is registered for Integrated M.Phil-PhD Programme with M.Tech Degree can register directly for PhD in the 3rd Semester provided s/he completed 1st and 2nd Semester with CGPA 'B+' (for General Category) or 'B' (for SC/ST/PH Category).

Research proposal has to be submitted to CRDC / DRDC at the time of admission to the programme. Thereafter, the candidate has to formally defend the proposal in the meeting of CC / DC.

The Ph.D. candidate may have to undertake additional non-credit taught courses, if the supervisor advised so.

Registration for Ph.D. shall be granted on the basis of the research proposal of the candidate and the recommendation of SRDC / CRDC / DRDC to URDC. The candidate has to give a registration seminar. Ph.D. registration shall remain valid for five years. However, in exceptional cases only, it may be extended by the URDC for a limited period, with requisite fees.

At least three months before the final submission of the thesis, the candidate shall make an open presentation in the CRDC / DRDC, which shall remain open to all faculty members and research students.

Each Ph.D. candidate shall publish at least one research paper in a peer reviewed Indexed Journal before the submission of the thesis for adjudication, and produce evidence on the same to CRDC / DRDC, in the form of a letter of acceptance, or the reprint of the paper. Without the latter, the submission of thesis by the candidate for examination is not permissible.

The thesis submitted by the Ph.D. student shall be evaluated by three (3) experts (not below the rank of Associate Professor) who are well known for their scholarship and generally have been working in national institutions of repute. A foreign examiner may also be included by URDC, depending on the subject area of research.

On receipt of examiner's positive reports, the candidate shall be called for viva voce, open-to-all.



If the thesis is rejected, citing sufficient grounds, of course, by one of the examiners, the Vice-Chancellor / URDC may decide to refer the thesis to a fourth examiner, who was not in the original list of examiners.

If the thesis is again rejected, the matter shall be decided by the URDC and the Academic Council

If any of the examiners of a thesis suggest revisions and re-submission, the candidate has to do so and re-submit the thesis within next six months for re-examination by the said examiner.

Viva Voce: The *viva voce* Board shall include: Chairperson : Dean of the School / Chairperson of SRC /Chairperson of URDC or his/her nominee members : Supervisor; One of the external examiners of the thesis; One Professor / Associate Professor from Cognate discipline in the university, to be nominated by the Vice-Chancellor.

All the members of the committee (except the external examiner) shall receive copies of the reports of the examiners at least a week before *viva voce*.

Award of Ph.D. degree: The award of the Ph.D. degree is made on the basis of:

- (a) Satisfactory performance in the course work as advised to take ;
- (b) The publication, based on the thesis;
- (c) The thesis, that exhibits the candidate's expertise in the chosen field of investigation as per the reports of the examiners. The thesis shall be the evidence of original research work characterized by either discovery of new facts, or a new interpretation of known facts and theory, or an independent design and development, or development of new instrument / technology; and,
- (d) *Viva voce* performance.

Not with standing any of the above, on the recommendations of the appropriate bodies, depending on the merit of the case the Chairperson, Academic Council is the competent authority to take appropriate decision.

2.5.7 Has the University created any provision for including the name of the college in the degree certificate?

Not Applicable.



2.5.8 What is the mechanism for redressal of grievances with reference to examinations?

The university administration has a well-developed system to timely address such grievances. In case of any grievance regarding attendance, assignment/project or test marks, the records are rechecked and the students are informed accordingly.

A student of the programme may appeal to the Chair of the DC / CC regarding marking / Grade and attendance. The Chair of the DC / CC may, if necessary, call the meeting of the DC / CC and address the grievance. If the student is still aggrieved, s/he may appeal to the Board of Examiners (BOE) through the Controller of Examinations (COE). The decision of the BOE has to be accepted as final.

2.5.9 What efforts have been made by the University to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division/section.

All examinations of the university (except entrance examinations) are conducted through internal assessment by the faculty members concerned. The format and timing of continuous internal assessment are decided by the concerned faculty member and the format and timing of the end-semester examinations are decided by the School Board. Provided however that all end – semester examinations for different departments / centres in a school shall normally be conducted in a commonly agreed time frame within the semester.

2.6. Student Performance and Learning Outcomes

2.6.1 Has the University articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?

The university articulates its graduate attributes to a productive and meaningful path by inculcating a sense of self-confidence, courage and faithfulness among the students. The university enforces these qualities through classroom teaching, off campus learning components such as rural service, industrial visits and Internship.

The university provides facilities for improving the soft skills of students to enhance their employability opportunities. Pre-placement training is also provided to students during their final year. Periodical tests are arranged to assess and formulate a mechanism to improve on the aptitude and subject skills.



2.6.2 Does the University have clearly stated learning outcomes for its academic programmes? If yes, give details on how the students and staff are made aware of these?

The learning outcomes are given in the form of aim / objective in prospectus. The learning outcomes of the university are interwoven around the motto of collective learning. The philosophy is printed on prospectus and annual reports, (*available on the university website*) university magazine, university website, and is built into as practice through the various activities undertaken by the university.

Syllabus content and lecture schedules are designed to inculcate a complete understanding of the subject content both in theory and practical courses and pave the way to adapt to the emerging trends in different courses.

2.6.3 How are the university's teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?

The teaching content and lecture schedules are structured to reach the objectives. The teaching-learning activity is assessed by the teachers through conducting periodical class test, mid-semester evaluation and viva-voce component in all the practical examinations.

The practical tests conducted periodically and outstation visits organised, infuses confidence among the students regarding the hands-on skill he/she develops. Finally, the examination of both theory and practicals by external examiners evaluate the depth of knowledge, provide extramural accreditation, and infuse confidence.

2.6.4 How does the University collect and analyse data on student learning outcomes and use it to overcome the barriers to learning?

A copy of the university results is sent to each department/centre/programme. The result is discussed at the departmental level. Appropriate corrective measures required like changes in distribution/sharing of papers among the faculty, continuous monitoring through evaluation, mentoring, counselling, remedial coaching are also taken. Possible measures to overcome these barriers are discussed in departmental staff meetings and staff-council meetings. These measures are implemented and reviewed from time to time.

Each faculty member is assessed by the students during every semester through the



proforma. This proforma is developed by including the following guidelines.

- Coverage of individual units
- Clarity of expression
- Presentation skills
- Interaction of the teacher with students
- Motivation by the teacher
- Temperament in the classroom
- Uniformity in covering the syllabus content
- Assessment of test papers

2.6.5 What are the new technologies deployed by the University in enhancing student learning and evaluation and how does it seek to meet fresh/ future challenges?

- Constant up gradation of learning and evaluation strategies with support from the Faculty of Education
- Digital resource sharing and online resources are made available for students learning.
- Certain departments extend field training to the students
- The department reviews and annual academic reports display on record the achievement of teachers during the period of review.

Best Practices

1. Continuous internal evaluation;
2. Education in a lively training environment;
3. Declaration of university academic calendar before commencement of the year;
4. Frequent interaction of students with globally renowned expert; and
5. Timely declaration of examination result.

Criterion III

Research, Consultancy and Extension



Prof. H. C. S. Rathore, Hon'ble VC CUSB inaugurating the World Statistics Day function on 20th Oct. 2015 at CUSB, Patna Campus



3.1 Promotion of Research

3.1.1 Does the University have a Research Committee to monitor and address issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes

- The university has (i) University level Research Council and (ii) Centre level Research Council to monitor and facilitate research in the University.
- University is planning to constitute Research Monitoring Committee for externally funded projects.

The University Research Committee provided following guidelines in 2014:

Recommendations of the committee:

To ensure that the guidelines provided for use of animals, radiations, and various chemicals, safe disposal of bio waste and chemicals are being followed.

Took various measures to design safe lab for researchers (ventilation, safety, lighting, fire safety etc.) Ensured active involvement of students without barriers.

Encourage inter and intra-university and collaboration/exchange of students and faculty. The above mentioned recommendations enabled smooth and safe operations of research projects with involvement of university.

The same committee also recommended that

- a) The use of animals for research purposes should be in strict accordance with UGC guidelines on animal experimentation.
- b) If animals are needed for the purpose, the procurement should be from the ethical sources and not removed from the wild.
- c) Appropriate records should be maintained for the procurement of animals - their source, mode of transport, number of animals used, conditions in which kept and use of anaesthesia.
- d) All lab in-charges should provide an undertaking ensuring the strict compliance of UGC Guidelines.

3.1.2 What is the policy of the University to promote research in its affiliated / constituent colleges?

Not Applicable



3.1.3 What are the proactive mechanisms adopted by the University to facilitate the smooth implementation of research schemes/ projects?

Autonomy to the Principal Investigator: The Principal Investigator is provided with complete autonomy regarding expenditure; procurement of equipment, stationery and other laboratory items; travel, selection of project fellow, hiring of research assistants, etc.

Adequate infrastructure and human resources: The adequate space for the establishment of a research laboratory is made available to the investigators along with the infrastructure needed as per demand and requirement. The university has also created a separate reading space in the college library for faculty and research scholars. The university also provides administration and technical support to the investigators as per need.

Timely availability or release of Grants: A separate bank account is opened in the name of the project as and when a project is sanctioned.

The grants are received from the funding institution/organization in the particular account and the funds are released to the investigators for specified purpose.

Monitoring of periodic progress: Periodic progress reports are prepared by the investigators. The reports are submitted to the funding agencies duly forwarded by the Registrar as per their format and requirement.

Time-off, reduced teaching load, special leave etc. to teachers.

There is no provision for time-off, reduced teaching load or any special leave by the university and the funding agency for conducting research projects. However, study leave is being sanctioned to the faculty members to carry out doctoral or post-doctoral research work as per the rules.

Support in terms of technology and information needs: The laboratories are equipped with sophisticated and high-end equipments. The facility is made available to the investigators for conducting research projects.

Facilitate timely auditing and submission of utilization certificate to the funding authorities.

On completion of the project an audit is carried out by a qualified Chartered Accountant and the Utilization Certificates are submitted to the funding agencies within stipulated time.



Any other: The university purchase committee facilitates the purchase of equipments, chemicals and other requirements for research activities following purchase rules prescribed under General Financial Rule of Government of India.

The university extends the required administrative support for the smooth implementation of the research projects.

3.1.4 How is interdisciplinary research promoted?

Between/among different departments /schools of the University and Collaboration with national/ international institutes / industries.

There are several inter-disciplinary projects which conditionally involve faculty members and students across different streams. The faculty and students interact with each other, work in collaboration and share their knowledge of different areas of Science and tackle the questions in a holistic way.

For example, A DST project on Ecophysiological and biochemical studies on diapause in selected Zooplankton” has a team comprising of Co-Investigator from Life Science programme JRF from Biotechnology and Principal Investigator from Environmental Science back ground.

The Principal Investigators of various projects are opting for co-principal investigators from other departments/ schools of the university. Also, many of the faculty is working hand-in-hand with other industries for their research projects. A few prominent examples are :-

Collaboration with Department of Botany, TM Bhagalpur University



Collaboration with Yamuna Biodiversity Park, CEMDE, University of Delhi

Collaboration with NIOP, Ahmedabad

Collaboration with Institute of Marine Biology, National Taiwan Ocean University Taiwan/ROC

3.1.5 Give details of workshops/ training programmes/ sensitization programmes conducted by the University to promote a research culture on campus.

List of workshops/training programmes/sensitization programmes conducted/organized with focus on capacity building in terms of research and imbibing research culture in last four years:

	Celebration”			
6	International Conference on Recent Advances in Mathematics, statistics and Computer Science	Jointly organized by Department of Statistics, Mathematics and Computer Science	29-31 May 2015	
7	International Conference on Recent Trends in Computer Science and Engineering	Department of Computer Science	8-9 Feb 2014	
8.	Celebration of World Statistics Day function	Department of Statistics	20 th Oct. 2015	
9.	International Conference on Human Implications of Biotechnology (ICHIB-2016)	Centre for Biological Sciences	To be held on 12 th -14 th Feb, 2016	
<i>(Annuxure VIII(d), 774-781p.)</i>				

3.1.6 How does the University facilitate researchers of eminence to visit the campus as adjunct professors? What is the impact of such efforts on the research activities of the university?

The university facilitates visit of researchers of eminence through engaging as scholar in residence /visiting/ adjunct faculty. It is a conscious policy that a significant proportion of the faculty would be drawn through such arrangements, particularly given the interdisciplinary and practice-focussed nature of many of the programmes at CUSB.

3.1.7 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.

Adequate provisions are provided in the budget for procurement of equipments, chemicals, apparatus etc. to conduct research activities in the university. Funds for participating in conferences and seminars within the country and abroad are made



available. The university encourages its faculty and students to participate in national and international conferences and present their work at global level. The university provides them financial support for registration fees, accommodation and travel etc.

Grants to conduct seminars, conferences and workshops: The university has a policy for funding the conduct of various workshops and seminars which are not funded by any external sources.

3.1.8 In its budget, does the University earmark fund for promoting research in its affiliated colleges? If yes, provide details.

Not Applicable

3.1.9 Does the University encourage research by awarding Post Doctoral Fellowships/Research Associate ships? If yes, provide details like number of students registered, funding by the University and other sources.

Not yet initiated

3.1.10 What percentage of faculty has utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the University monitor the output of these scholars?

Recently one faculty has been given study leave for doing Ph.D. in U.K.

3.1.11 Provide details of national and international conferences organized by the University highlighting the names of eminent scientists/scholars who participated in these events.

There are several National and International Conferences organized by the university such as:

Sl. No.	Details	Organizer department/ Centre	Date	Name of the eminent scientists/scholar participated the event
1	National Conference on Aquatic Ecosystem and their management: Recent trends and Future Perspective”	Centre for Environmental Sciences;	21-23 March 2014.	1. Prof. D. Kumar, Former Director/ VC Central Institute of Fishery Education Mumbai 2. Prof. T. R. Rao, Former Director, School of Environmental Studies, University of Delhi 3. Prof. A. L. Ramnathan, School of Environmental Sciences, JNU 4. Prof. B. N. Pandey, President Zoological Society of India, Bodh Gaya



				<p>5. Prof. S.P. Roy, Department of Zoology BhagalPur University</p> <p>6. Prof. M. P. Sinha, Pro Vice Chancellor, Vinobabhave have University Hazaribagh, Jharkhan</p> <p>7. Prof. Sudip Barat, University of North Bengal, Darjeeling, West Bengal, India.</p> <p>8. Prof. P. Saravana Bhavan, Bharathiar University, Coimbatore - 641046 (TN).</p>
2	International Conference on Recent Advances in Mathematics, Statistics and Computer Science	Jointly organized by Department of Statistics, Mathematics and Computer Science	29-31 May 2015	<p>1. Prof. G. P. Patil Distinguished Professor, Emeritus of Mathemtical Statistics, Penn State University, USA</p> <p>2. Prof. BhbuDev Sharama Former Professor of Mathematics IIIT, NOIDA and Clark Atlanta University, USA</p> <p>3. Prof. J. N. Singh, Professor of Mathematics, Department of Mathematics and Computer Science, Barry University Florida, USA.</p> <p>4. Prof. Pranesh Kumar Department of Mathematics and statistics, University of North British Columbia Canada</p> <p>5. Prof. Bikas Kumar Sinha, Department of Statistcs University of Californea, Los Angels USA & Retired Professor of Statistcis, Indian Statitital Institute Kolkata</p>
3	International Conference on Recent Trends in Computer Science and Engineering	Department of Computer Science	8-9 Feb 2014	<p>1. Prof. A.K. Misra, MNNIT Allahabad</p> <p>2. Dr. Raj Natarajan, CEO, Forum Communication Systems, USA</p> <p>3. Shri Sanjeev. K. Trivedi, Regional Manager (Govt.) - South Asia, Adobe Systems India Private Ltd.</p> <p>4. Mr. Shubham Chatterji, Business Manager, SAS</p> <p>5. Prof. Sanjay Misra, Covenant University, Nigeria</p>



3.2 Resource Mobilization for Research

3.2.1 What are the financial provisions made in the University budget for supporting students' research projects?

Not yet initiated

3.2.2 Has the University taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?

Under process

3.2.3 Provide the following details of ongoing research projects of faculty:

	Year wise	Number	Name of project	Name of the funding agency	Total grant received
University awarded projects : NIL					
Minor project	-	-	-	-	-
Major project	-	-	-	-	-
A. Other agencies - National/ International (please specify)					
Minor project	2013	1.	"Design and development of herbicide against carboxyl terminal (CT) domain of ACCase of Phalaris minor to regin sensitivity in resistant biotype."	DST-NASI	2,27,920
Major project	2013	1.	Possible future changes in Indian Summer Monsoon Rainfall (ISMR) under Warmer Climate"	DST	16,73,040/-
		2.	"Identification of genes involved in the biosynthetic pathway of echinocandin B: the first line antifungal	Fast Track Schemes for Young Scientists	11,00,000
		3.	"Optimal active (standby) redundancy allocations in series systems"	UGC - Start-Up-Grant	5,40,000/-
		4.	"Heavy metal fingerprints in Kabartal wetland, Bihar"	UGC - Start-Up-Grant	5,40,000/-
		5.	"Study of odd ordered Nilpotents group with class two"	UGC - Start-Up-Grant	5,40,000/-



		6.	Some problems on Permutation Polynomials and Cryptography	UGC Start-Up-Grant	-	5,40,000/-
		7.	Design and Development of Inhibitor against Nucleotide Binding Domain of P-gp for Enhancing Bioavailability and Reversal of MDR Resistance”	-do-		5,40,000/-
		8.	Molecular Assesment of microbial diversity and their role in arsenic contaminated groundwater of middle Ganga plain, Bihar, India.	-do-		5,40,000/-
		9.	“Biological Significance of structural microheterogeneity: investigations on pituitary prolactin as a model proteimn hormone.	-do-		6,00,000/-
	2014	10.	Pollution remocval from wastewater by application of constructd wetlands treatment technology”	-do-		6,00,000/-
		11.	“Molecular characterization of genetic diversity in Makhana (Euryale ferox Salisbury)	SERB-DST		11,00,000
		12.	Ecophysiological and Biochemical studies on diapause in selected Zooplankton	DST		14,97,000
		13.	Screening and Characterization of antimicrobial activity of the fungal secondary metabolites to combat multidrug resistance in Staphylococcus aureus.”	SERB-DST,		600,000
		14.	Modelling Study of flood and draught in Eastern Gangetic Plain in India	IBM		2,25,000
		15.	Rational Desing of Plasmon-engineeered Luminiscence up-conversion Nanomaterials for Multidimodal Imaging and	DST		48,40,000



			Therapy”		
		16.	Synthesis of Photosensitizer-loaded Metallic Nanoshells and Plasmonic Modulation of Singlet Oxygen Generation: towards Developing a Non-invasive Bimodal Nano-therapeutic Tool”	SERB-DST	27,00,000
		17.	Investigating the mechanisms of complex-I specific mitochondrial DNA mutations in breast and colorectal cancer progression”	SERB-DST	19,10,000
		18.	New generation of fluoro carbocyclic nucleoside for the treatment hepatitis C”	SERB-DST	21,00,000
		19.	Genetic improvement of Makhana (Euryale ferox) through Gama radiation”	DAE	12,56,150
		20.	Biogeochemical Processes influencing Eutrophication in Kabar Tal Wetland, Bihar, (India).	SERB-DST	10,00,000
		21.	Heavy metal contamination of urban soil along roadside: assessment of potential health risk for inhabitants in Patna, India.	UGC	600,000
		22.	Investigating the mechanisms of complex-I specific mitochondrial DNA mutations in breast and colorectal cancer progression”	UGC	600,000
		23.	Understanding the Nonlinear Optical Properties of Luminescent Nanocrystals of Cadmium and Zinc Chalcogenides	UGC	600,000

3.2.4 Does the University have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received.

Name of the project: "Modelling Study of Flood and Drought in Eastern Gangatic Plain in India"

Funding agency: IBM India

Grants received: Rs. 2, 25,000/-

3.2.5 How many departments of the University have been recognized for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.

Not now.

3.2.6 List details of

a. Research projects completed and grants received during the last four years (funded by National/International agencies).

S.No	Title of Project	Principal Investigator	Grants received	Department
1.	Study of odd ordered Nilpotent groups with class two.	Dr. Vivek Kumar Jain	5,40,000/-	Mathematics
2.	Wave propagation in generalized thermoelasticity	Dr. Roushan Kumar	5,40,000/-	
3.	“Behaviour of NSE Indices & Estimation of Possible Loss and Profit of Traders”	Dr. Jitendra Kumar	5,40,000/-	
4.	“Some Problems on Permutation Polynomials and Cryptography”	Dr. Rajesh Pratap Singh	5,40,000/-	
3	Impact of salinity on plant physiology and ionic variation in different cultivar of rice in eastern region of India	Dr. Gautam Kumar	5,40,000/-	Life Science-
6.	Screening and characterization of antimicrobial activity of fungal secondary metabolites to combat multidrug resistance in Staphylococcus aureus	Dr. Antresh Kumar	600,000	
7.	“Molecular assessment of microbial diversity and their role in arsenic transformation and mobilization in arsenic contaminated groundwater of middle Ganga plain, Bihar India.”	Dr. Nitish Kumar	5,40,000/-	Biotechnology
8.	“Molecular cloning and expression analysis chimeric Interferon Regulatory Factor-2 (IRF-2)”	Dr. Krishna Prakash	5,40,000/-	
9.	“Design and Development of Inhibitor Against Nucleotide Binding Domain of P-gp for Enhancing Bioavailability and Reversal of MDR Resistance”	Dr. Durg Vijay Singh	5,40,000/-	Bioinformatics
10.	"Role of Ionotropic receptors (IRs) in olfaction in Drosophila melanogaster"	Dr. Jawaid Ahsan,	5,40,000/-	Biotechnology
11.	“Heavy metal fingerprints in Kabartal wetland, Bihar”	Dr. Rajesh Kumar Ranjan	5,40,000/-	Environmental Science



b. Inter-institutional collaborative projects and grants received

NIL

i) All India collaboration :

ii) International :

3.3 Research Facilities

3.3.1 What efforts have been made by the University to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?

CUSB has well equipped laboratory in all science departments as per their requirement

3.3.2 Does the University have an Information Resource Centre to cater to the needs of researchers? If yes, provide details of the facility.

Though the university does not have an Information Resource Centre by name, however all information, notices, lecture of the faculties and other relevant document are immediately uploaded on the university website and thus the utility of having an Information Resource Centre is partially fulfilled.

CUSB has good information resources for the researchers:

3.3.2 (a) UGC- Infonet E-Journals Consortium:

S.No	E-journals & Bibliographic databases	URL	Total
1.	Annual Reviews	http://www.annualreviews.org/	46
2.	Cambridge University Press	http://journals.cambridge.org/	224
3.	Economic & Political Weekly	http://www.epw.in/	All
4.	ISID	http://isid.org.in/home.html	All
5.	JCCC	jgateplus.com/search	All
6.	JSTOR	http://www.jstor.org/	2072
7.	Manupatra	http://www.manupatrafast.com/	All
8.	Oxford University Press	http://www.oxfordjournals.org/en/	202
9.	Portland Press	http://www.portlandpress.com/	10
10.	Project Euclid	http://projecteuclid.org/	129938
11.	Project Muse	http://muse.jhu.edu/browse/	493
12.	Science Direct (10 subject collection)	http://www.sciencedirect.com/	1036
13.	SIAM	http://epubs.siam.org/	17
14.	Springer Link	http://link.springer.com/	1389
15.	Taylor and Francis	http://www.tandfonline.com/	1173
16.	Wiley-Blackwell	http://onlinelibrary.wiley.com/	908



3.3.2 (b) Subscribed e-resources:

S.No	E-resources	URL	Total
1.	ACM Digital Library	http://dl.acm.org/	1131
2.	APA PsycARTICLES	http://search.proquest.com/	113
3.	Cell Stem Cell	http://www.journals.elsevier.com/cell-stem-cell/	1
4.	IEEE Xplore	http://ieeexplore.ieee.org/Xplore/home.jsp	416
5.	Indiastat	http://www.indiastat.com/default.aspx	1
6.	Journal of Biological Chemistry	http://www.jbc.org/	1
7.	Journal of Immunology	http://www.jimmunol.org/	1
8.	Mathscinet	http://www.ams.org/mathscinet/	All
9.	Nature Biotechnology	http://www.nature.com/nbt/index.html	1
10.	Plant Physiology	http://www.plantphysiol.org/	1
11.	The Plant Cell	http://www.plantcell.org/	1
12.	Transactions of American Mathematical Society	http://www.ams.org/publications/journals/	1

3.3.2 (c) Software:

S.No	Software	URL
1.	Turnitin	http://turnitin.com/en_us/login

3.3.3 Does the University have a University Science Instrumentation Centre (USIC)? If yes, have the facilities been made available to research scholars? What is the funding allotted to USIC?

Not yet, but has plans to establish it after development of buildings in universities own campus at Gaya.

3.3.4 Does the University provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)?

Not yet but plans to do this.

3.3.5 Does the University have a specialized research centre/ workstation on-campus and off-campus to address the special challenges of research programmes?

No

3.3.6 Does the University have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

No

3.4 Research Publications and Awards

Publication mentioned in respective department/centre.



3.4.1 Does the University publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.

No

3.4.2 Give details of publications by the faculty:

- * Monographs : NIL
- * Chapters in Books : 94
- * Books edited :
- * Books with ISBN with details of publishers: 5
- * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, EBSCO host, etc.) : 156
- * Citation Index – range / average: 0 to 96
- * SNIP
- * SJR
- * Impact Factor – range / average: 0.2 to 6.6
- * h-index

3.4.3 (a) List of Faculty Publications arranged by National or International Scope:

Centre of Biological Sciences (Bio-informatics)								
S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings	
1.	Anil Kumar	3	0	6.934	22.08	0	0	
2.	V.K. Singh	3	0	6.563	27.63	1	0	
3.	D.V. Singh	9	0	10.252	43.16	2	0	
4.	K.K. Ojha	1	0	0	0	0	0	
Total:		16	0	23.749		3	0	

Average Impact factor contribution by faculty = 5.937

Centre of Biological Sciences (Bio-technology)								
S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings	
1.	Rizwanul Haque	10	0	35.867	23.71	3	3	
2.	Antresh	2	0	2.042	1.35	0	0	



	Kumar						
3.	Nitish Kumar	14	0	27.75 7	18.35	3	4
4.	Jawed Ahshan	4	0	9.971	6.59	2	0
5.	K. Prakash	7	0	18.55	16.15	2	0
6.	Lokendra Sharma	10	0	57.05 2	23.08	3	1
Total:		47	0	151.2 39		13	8

Average Impact factor contribution by faculty = 25.20

Centre of Biological Sciences (Life Science)

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	Gautam Kumar	4	0	9.03 2	28.11	2	1
2.	Amrita Srivastava	5	0	5.47 1	17.02	2	-
3.	Tara Kashav	1	0	3.01 5	9.38	0	-
5.	Manoj Panchal	4	0	12.5 7	39.12	1	-
5.	Amit Ranjan	3	0	2.02 5	6.30	0	1
Total:		17		32.1 13		5	2

Average Impact factor contribution by faculty = 4.88

Centre for Environmental Sciences

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	Ram Kumar	19	0	34.3 6	37.43	8	3
2.	Pradhan Parth Sarthi	7	0	17.9 62	19.57	3	1
3.	R. K. Ranjan	11	0	17.6 05	19.18	3	3



4.	Prashant	1	0	1.10 6	0.16	0	1
5.	N.L. Devi	9	0	20.7 48	22.60	3	4
6.	N.D. Saha	5	0	-		-	0
Total:		52	0	91.7 81		17	12

Average Impact factor contribution by faculty = 15.29

Department of Mathematics

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	V. K. Jain	6	0	1.61 6	12.60	2	0
2.	R. Kumar	3	0	4.32	33.68	0	1
3.	P. Mishra	2	0	1.81 7	14.16	0	1
4.	R.P. Singh	1	0	0.73	15.74	0	1
5.	J. Singh	4	0	3.60 4	28.10	0	0
6.	S.N. Singh	2		0.73 8	5.75	0	0
Total:		18	0	12.8 25		2	3

Average Impact factor contribution by faculty = 2.137

Department of Computer Science

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	R. Rajesh	7	0	4.55	100	1	10
2.	P. Ranjan	0	0	0	0	0	3
3.	Mrs. Simta Roy	0	0	0	0	0	3
4.	N.C. Rathore	0	1	0	0	0	5
5.	Jainath Yadav	0	0	0	0	0	11
6.	Tarok Pramanik	0	0	0	0	0	1



Total:	7	1	4.55	0	1	33
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Average Impact factor contribution by faculty = 0.75

Department of Statistics

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	Prof. A.K. Sinha	8	1	6.5 (NAAS)	20%	1	0
2.	A. Mishra	6	0	2.689	100	2	0
Total:		14	1	9.189		3	0

Average Impact factor contribution by faculty = 4.5945

Centre for Development Studies

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	Firdaus Rizvi	0	2	0	0	0	1
2.	Aditya Mohanty	0	2	0	0	0	1
3.	Anju	0	1	0	0	0	0
Total:		0	5	0	0	0	2

Average Impact factor contribution by faculty = 0.00

Centre for Political Studies

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	Alok Gupta	0	7	0	0	0	2
2.	Sumit Pathak	0	1	0	0	0	1
3.	Pranav Kumar	0	4	0	0	0	1
4.	Prashant Kumar	0	3	0	0	0	0
Total:		0	15	0		0	4

Average Impact factor contribution by faculty = 0.00



Centre for Economic Studies and Policies

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	Abodh Kumar	0	4	0		0	0
2.	A. Dash	0	2	0		0	0
3.	T. Patra	0	0	0		0	0
Total:		0	6	0		0	0

Average Impact factor contribution by faculty = 0.00

Centre for Sociological Studies

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	Jitendra Ram	0	1	0	0	0	0
2.	H. N. Pandey	0	0	0	0	0	5
3.	A. Gautam	0	2	0	0	0	1
Total:		0	3	0			6

Average Impact factor contribution by faculty = 0.00

Centre for Psychological Sciences

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	Narsingh Kumar	0	0	0	0	0	1
2.	M.K. Manglam	2	0	0.437	100	0	0
3.	Das Ambika Bharti	0	3	0	0	0	1
Total:		2	3	0.437		0	2

Average Impact factor contribution by faculty = 0.14

Centre for Mass Communication and Media

S.	Name of	International	Natio	Imp	Impact	Papers	Book
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No	faculty	al	nal	act facto r	factor (%)	cited more than 10 times	Chapters/ Books/ Conference Proceedings
1.	K. Pathak	0	2	0	0	0	3
2.	A. Deb	0	3	0	0	0	0
3.	Sujeet Kumar	0	3	0	0	0	0
Total:		0	8	0		0	3

Average Impact factor contribution by faculty = 0.00

Centre for Education

S. No	Name of faculty	Internation al	Natio nal	Imp act facto r	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	K. Kishore	3	0	9.41 34	100	0	8
2.	M. Sahoo	0	6	0	0	0	1
3.	Rinki	0	0	0	0	0	1
Total:		4	4	9.41 34		0	10

Average Impact factor contribution by faculty = 3.13

Centre for Foreign Language (English)

S. No	Name of faculty	Internation al	Natio nal	Imp act facto r	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	Suresh Kurapati	-	1	-	0	-	1
2.	A.K. Pathak	-	-	-	0	-	-
3.	Richa	-	-	-	0	-	-
Total:		-	1	-		-	1

Average Impact factor contribution by faculty = 0.00

Centre for Indian Language (Hindi)

S. No	Name of faculty	Internation al	Natio nal	Imp act facto r	Impact factor (%)	Papers cited more than 10	Book Chapters/ Books/ Conference Proceedings
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						times	
1.	K. Jha	0	8	0	0	0	-
2.	K. Arya	0	23	0	0	0	-
3.	Y.P. Shekhar	-	-	-	0	-	-
4.	S. Bhushan	-	-	-	0	-	-
5.	Anuj Lugun	-	-	-	0	-	-
Total:		0	31	0		0	0

Average Impact factor contribution by faculty = 0.00

School of Law and Governance

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	P. K. Das	-	14	0	0	0	4
2.	Ahshan Rashid	0	1	0	0	0	1
3.	Poonam Kumari	0	0	0	0	0	1
Total:		0	15	0		0	6

Average Impact factor contribution by faculty = 0.00

Department of Chemistry

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	G. Chandra	4	0	10.9	50.76	1	0
2.	A. Priyam	3	-	10.57	49.23	1	0
Total:		7	0	21.47		2	2

Average Impact factor contribution by faculty = 10.73

Department of Physics

S. No	Name of faculty	International	National	Impact factor	Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
1.	Akhilanand	-	-		-	-	-



Kumar							
Total:	-	-	-	-	-	-	-
Average Impact factor contribution by faculty = 0.00							

Grand total of Publications	International	National	Total Impact factor	Avg. Impact factor (%)	Papers cited more than 10 times	Book Chapters/ Books/ Conference Proceedings
387	183	93	354.8575	23.20	48	94

3.4.3 (b) Give details of

- * Faculty serving on the editorial boards of national and international journals

PROF. ARUN KUMAR SINHA:

- **Member** : Editorial Board of *American Journal of Mathematical and Management Sciences*, American Sciences Press, Inc., USA.
- **Member** : Editorial Board of the *International Journal MENDEL*, an International Journal of Science of the Mendelian Society of India located in S. K. Puri, Patna 800 001, Bihar, India.
- **Member** : Editorial Board of the *Journal of National Academy of Mathematics, India* published by National Academy of Mathematics, D. D. U. Gorakhpur University, Gorakhpur – 273009.
- **Member** of the Editorial Board of the *Journal of Mathematics and Systems Sciences* published by Group of Mathematicians and Engineers Society, N I T, Kuruksheeta - 136119, India

DR. RAM KUMAR:

Associate Editor, Frontiers in Marine Science (Frontiers in Marine pollution):

Published by Frontiers Editorial Office: EPFL - Innovation Square, Building I CH – 1015 Lausanne, Switzerland

http://www.frontiersin.org/Marine_Pollution/editorialboard

Member International Advisory Board of the e-Journal

“International Journal of Applied Sciences and Management” published by *Waljat College of Applied Sciences (WCAS), Muscat; Oman.*

<http://www.waljatcollege.edu.om/journal/editorialboard.html>



DR. KAUSHAL KISHORE of Department of Education has been nominated as **member of Editorial board** of 'Education India Journal' in **July 2014**.

DR. PRADHAN PARTH SARTHI (Associate Professor, Environmental Sciences)

1. International Journal of Research in Science & Technology (ISSN : 2249-0604)
2. International Journal of Scientific & Engineering Research (ISSN: 2229-5518)
3. Open Journal of Atmospheric and Climate Change
4. Open Journal of Environmental and Social Sciences

DR. JAWAID AHSHAN (Assistant Professor, Biotechnology)

1. In the Editorial Board of "Research and Reviews: A Journal of Neuroscience (RRJoNS)" of STM Journals.
2. In the Editorial Board of International Journal 'Frontiers in Neuroscience'.
3. In the Editorial Board of 'Evolutionary Psychology and Neuroscience', a specialty of the journal 'Frontiers in Neuroscience and Psychology'.

DR. LOKENDRA SHARMA (Assistant Professor, Biotechnology)

1. 2011-present Ad-hoc scientific reviewer, BBA: Molecular Basis of Disease, Biochemistry. PlosOne
2. 2011-present Review Editor, Frontiers in Genetics of Aging.
3. 2013-present Editorial Board Member of American Journal of Biomedical Research (AJBR)
4. 2013-present Editorial Board Member of Cancer Research Journal
5. 2014-Present Editorial Board Member of Trends Journal of Sciences Research (TJSR)
6. 2014-Present Peer Reviewer of European Journal of Molecular Biology (EJMB)
7. 2014-Present Lead guest Editor of Cell Biology Journal and hosting a special issue on Mitochondria



*** Faculty serving as members of steering committees of international conferences recognized by reputed organizations / societies;**

Dr. Ram Kumar,

- i. Member of Steering committee on 20th *ISCB International Conference (ISCBC-2014) on “Chemistry and Medicinal Plants in Translational Medicine for Healthcare”* organized by Department of Chemistry, University of Delhi and Indian Society of Chemist and Biologists (ISCB, Lucknow) at University of Delhi.
- ii. Member of Steering committee of International Conference on Copepoda, held at Hanyang University Korea July 2014.

Dr. Pradhan Parth Sarthi (Associate Professor, Environmental Sciences)

- i. Steering Committee Member of Bihar State Action Plan on Climate Change
- ii. Advisory member, Bihar State Disaster Management Authority

Dr. Rizwanul Haque:-

- I. Editorial Board member of Journal of Immunology and Vaccine Technology

Dr. Jawaid Ahshan (Assistant Professor, Biotechnology)

- I. Member of Society for Neuroscience (SFN)
- II. Member of Molecular and Cellular Cognition Society (MCCS)

Dr. Krishna Prakash

- I. Advisory Editorial board member of **Journal of Biomedical Sciences** (JBM, ISSN:2161-2625).

3.4.4 Provide details of

- * Research awards received by the faculty and students**
- * National and international recognition received by the faculty from reputed professional bodies and agencies**

A. Research awards received by the faculty and students

- i. Abodh Kumar: Inspired Teacher Residential Programme of 2015 initiated by Honorable President of India
- ii. श्री अनुज लुगुन को भारत भूषण अग्रवाल एवं सावित्री त्रिपाठी पुरस्कार ।



- iii. Dr. Rajesh Kumar Ranjan, Non- official member Regional Empowered committee, East Central Zone, Ministry of Environment, Forest and Climate Change, Government of India, 2015.
- iv. Atish Kumar Dash: Young Researcher Award, 7th Development convention of ICSSR, February 20-22, 2008, IPE, Hyderabad.
- v. Dr. Lokendra Sharma, Centre for Biological sciences: Recipient of inaugural Susan L Naylor Award for Excellence in Postdoctoral Studies at C&S Biology at UTHSC San Antonio Center United States.

B. National and international recognition received by the faculty from reputed professional bodies and agencies

- i. Dr. Gautam Kumar received 2012, Young Scientist Travel Award by DST, Government of India to participate in Plant Abiotic Stress Tolerance II, Vienna, Austria, 22th -25th February, 2012.
- ii. Zoological Society of India recognized contribution of Dr. Ram Kumar provided Life membership and Fellowship;
- iii. Dr. Ram Kumar Chaired a session in International conference on monitoring and management of degraded wetlands held at Pattaya, Thailand 5-9 August, 2011.
- iv. Dr. Ram Kumar acted as Resource person, and chaired a session in the Workshop on Diversity and Ecology of Freshwater Zooplankton in South East Asia, at the National Forest Park of Liuxihe, in Guangzhou, China during 3 - 7 July, 2011.

3.4.5 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years. Does the University participate in *Shodhganga* by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access?

The M. Phil –Ph. D. programme started in 2014 and faculty are guiding students. None have completed degree.

3.4.6 What is the official policy of the University to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.

CUSB is subscribing Turnitin – anti plagiarism software, to check malpractices and plagiarism in research.

3.4.7 Does the University promote interdisciplinary research? If yes, how many



interdepartmental/ interdisciplinary research projects have been undertaken and mention the number of departments involved in such endeavours?

Yes,

One Centre for Environmental Sciences and Life science programme

Collaborative project between Dr. Ram Kumar and Dr. Manoj Panchal

3.4.8 Has the University instituted any research awards? If yes, list the awards.

No

3.4.9 What are the incentives given to the faculty for receiving state, national and international recognition for research contributions?

Necessary infrastructure and funding is available to encourage faculty receiving recognitions.

3.5 Consultancy

3.5.1 What is the official policy of the University for structured consultancy? List a few important consultancies undertaken by the University during the last four years.

1. **Industrial Consultancy Project**

Consultancy project from Cairn India Limited, Barmer, Rajasthan, entitled "consultancy services for installation of constructed wetlands / reed bed for domestic sewage treatment at operation base Bhagyam". SO No. Rajasthan/7400012297, dated – 01.06.2013.

The Official policy yet to be formulated

3.5.2 Does the University have a university-industry cell? If yes, what is its scope and range of activities?

It is under process.

3.5.3 What is the mode of publicizing the expertise of the University for consultancy services? Which are the departments from whom consultancy has been sought?

Not available yet

3.5.4 How does the University utilize the expertise of its faculty with regard to consultancy services?

Not yet started



3.5.5 List the broad areas of consultancy services provided by the University and the revenue generated during the last four years.

Not Applicable

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the University sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience during the last four years.

The university promotes its social activities through several committees and programmes, like Eco Club, Swachh Bahart campaign and Unnat Bharat Abhiyan etc. The Convenor and other faculty members of these committees motivate students to participate in the activities and also keep a track of student's involvement. The university also compensates attendance of students for participation in such activities if done through proper channel. This also helps to track student's involvement.

After briefing during orientation day of the college, new students are asked to join at least two extension/extracurricular/co-curricular activities.

3.6.2 How does the University promote university-neighbourhood network and student engagement, contributing to the holistic development of students and sustained community development?

The vision of the university is to develop students into responsible citizens. With this in view the university organizes various activities for the cause of welfare of society through its development studies students and NGOs and through community projects by students. Presently five villages have been adopted by the university under the Unnat Bharat Abhiyan. The details of work done shall be presented.

In the past, our social outreach programmes included:

- Blood donation camps
- Health check-up camps
- Cleanliness drives
- Used cloth collection and donations, etc.
- Counseling and workshops for school students by Faculty.
- Pollution and its effect on health and life of people, etc.

3.6.3 How does the University promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programmes?

Not yet taken off. However, once the university shifts in July 2016 in its own campus all these activities shall be undertaken.

3.6.4 Give details of social surveys, research or extension work, if any, undertaken by



the University to ensure social justice and empower the underprivileged and the most vulnerable sections of society?

Work in five villages adopted by the university under Unnat Bharat Abhiyan is in progress in this regards.

3.6.5 Does the University have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?

Yes, concerned department monitor these activities

3.6.6 Bearing in mind the objectives and expected outcomes of the extension activities organized by the university, how did they complement students' academic learning experience? Specify the values inculcated and skills learnt.

The contact with the society during the direct interaction in social outreach programmes provides an opportunity to the students to feel the realities of the world. This makes them more responsible in their actions, humanitarian in their approach and sensitive to the needs of differently abled and under-privileged. They become more expressive and concerned.

3.6.7 How does the University ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the University which have encouraged community participation in its activities.

There is a direct involvement of community of villages under the Unnat Bharat Abhiyan in five villages.

3.6.8 Give details of awards received by the institution for extension activities and/contributions to social/community development during the last four years.

Nil

3.7 Collaboration

3.7.1 How has the university's collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the University benefitted academically and financially because of collaborations?

The faculty of CUSB are collaborating with other National; and International agencies. e.g

Dr. Ram Kumar has collaborative Research with (i) Yamuna Biodiversity Park, CEMDE, University of Delhi.;(ii) Department of Botany TM Bhagalpur University.

(iii) Institute of Marine Biology, National Taiwan Ocean University, Keelung, Taiwan

(iv) University of Science and Technology Lille-1, Wimmeraux Marine Station, 6



Avenue Foch, France. ,

The university benefited academically by joint publications in per reviewed International journals.

3.7.2 Mention specific examples of how these linkages promote?

- * Curriculum development
- * Internship
- * On-the-job training
- * Faculty exchange and development
- * Research
- * Publication
- * Consultancy
- * Extension

*** Student placement**

*** Any other (please specify)**

These linkages have promoted Research, joint publication, internship for CUSB students and organizing conferences,

3.7.3 Has the University signed any MoUs with institutions of national/international importance/other universities/ industries/corporate houses etc.? If yes, how have they enhanced the research and development activities of the university?

Not yet.

3.7.4 Have the university-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?

NA

Best Practices

1. Adoption of five villages under Unnat Bharat Abhiyan;
2. Collaborating research with other universities and institutions;
3. Publication of research output in journals having impact factors;
4. Involment of Master students in research and project work;
5. Availability of library and laboratory for students & research scholar during vacation;



Criterion IV

Infrastructure and Learning

resources



4.1 Physical facilities

The university has always endeavored to create infrastructure and enhance it according to the needs of the course/curriculum as per the standards and norms. The underlying policy for any infrastructure development must be included in sync with good practices features like energy conservation, environment protection, accessibility for differently-abled and judicious use of value for money and resources.

It is envisaged that the most centric amongst all is that the students get the most enabling infrastructural support which facilitates scholastic and as well as personality development.

The CUSB has excellent infrastructural facilities, all the important departmental labs and offices are centrally air-conditioned, Classrooms are fully furnished with ICT facilities, interactive boards and LED display monitors for classroom teaching, well equipped laboratories with sophisticated instruments. The campus is connected through Wi-Fi and LAN facilities, Internet browsing facility.

The university is constantly upgrading its library, laboratories and other infrastructure. Subject to the availability of funds, the requirements of various departments are taken for consideration on priority basis for the students and staff.

4.1.1. How does the University ensure that all the stakeholders are aware of the evaluation processes that are in place?

Through regular periodic meetings.

4.1.2. Does the University have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

CUSB is one of the new Central Universities established in the year 2009. The construction of the new campus is going on at a brisk pace. The construction of its infrastructure is through RITES Ltd., a Government of India Enterprise under aegis of India Railways. The construction is done through the funds received from UGC. The first phase of construction is under process.



4.1.3. How does the University create a conducive physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services?

All the buildings are planned as per the requirement of each department. Any additional requirement or alterations are made based on the requirement.

4.1.4. Has the University provided all departments with facilities like office room, common room and separate rest rooms for women students and staff?

- The university is committed to improve the teaching-learning process with modern class rooms with all ICT enabled facility.
- The bandwidth for the internet connectivity of 1 Gbps
- Computational facility with 250 Nos. of computers.

The university is now functioning in rented buildings at two campuses Patna and Gaya

4.1.5. How does the University ensure that the infrastructure facilities are disabled-friendly?

All the necessary facilities like ramps, wheel chairs, separate toilets, lifts etc. for disabled are proposed in the buildings to be constructed.

Ramps with railings at various places for seamless accessibility are planned at permanent campus. We try to ensure that all the classes of orthopedically challenged students are held on the ground floor in accessible areas.

We are planning to have **free** pick-up/drop facility from campus to nearby Sekhpura more during examinations and we further plan to extend this service during regular days as well on demand basis.

4.1.6. How does the University cater to the requirements of residential students? Give details of Capacity of Hostels and occupancy:

In the first phase capacity of hostels and occupancy with 500 for boys and 250 for girls each rooms each and with adequate no. of bathroom. A TV Hall, wi-fi are planned.

Recreational facilities like Gymnasium, yoga centre, etc in hostels: shall be made available.

Broadband connectivity/ Wi-fi facility in hostels: shall be made available



4.1.7. Does the University offer medical facilities for its students and teaching and non-teaching staff living on campus?

Highly qualified and well experienced doctors are available at the premises. Empanelled hospitals are made available and all the staff can approach that hospital at any point of time. There is a provision of student's health insurance and students can visit the empanelled doctors and hospitals. On the permanent campus we propose to develop a dedicated medical facility both for students and staff through permanent doctors. Two medical officers positions with supporting staff have been sanctioned by UGC.

4.1.8. What special facilities are available on campus to promote students' interest in sports and cultural events/activities?

- In the permanent campus, where the construction is under process, there is plan for all facilities like cricket, football, volley ball court, indoor games facility like chess, carom boards, table tennis etc. in the sports ground.
- There is facility for conducting cultural events
- Planned auditorium is there

4.2. Library as a learning resource:

4.2.1 Does the library have an Advisory Committee? Specify the composition of the committee. What significant initiatives have been taken by the committee to render the library student/user friendly?

- a) Yes, the Central library has an Advisory Committee.
- b) The University set up Central library at Patna Campus in 2009. As the university had set up another campus at Gaya in 2013, the competent authority has constituted two separate library advisory committees to monitor and supervise libraries.
- c) The committees have taken following significant initiatives to render the library student user friendly.
 1. Creating congenial environment and air-conditioned with deep silence.
 2. Library Automation.
 3. Developing e-resources collection.
 4. Remote access to e-resources thorough VPN.



Advisory Committee Formation

Patna Campus

1. Prof. H.C.S. Rathore, VC : Chairman
2. Dr. Pradhan Parth Sarthi, HOD, Centre for Environmental Sciences : Member
3. Dr. Rizwanul Haque, HOD, Centre for Biological Sciences (Biotechnology) : Member
4. Dr. R. Rajesh, HOD, Department of Computer Science : Member
5. Dr. R. P. Singh, Head, I/C, Department of Mathematics : Member
6. Dr. Narsingh Kumar, Head, I/C, Centre for Psychological Sciences : Member
7. Dr. Kinshuk Pathak, Head, I/C, Centre for Mass Communication & Media : Member
8. Dr. Mayank Yuvaraj, Assistant Librarian : Member-Secretary

Gaya Campus

1. Prof. H.C.S. Rathore, VC : Chairman
2. Dr. Alok Kumar Gupta, Academic Coordinator & HOD, Centre for Political Studies : Member
3. Dr. Kaushal Kishore, HOD, Centre for Education : Member
4. Dr. Kamlanand Jha, HOD, Centre for Indian Languages (Hindi) : Member
5. Dr. Pradeep Kumar Das, Head I/C, School of Law and Governance : Member
6. Dr. Jitendra Ram, Head, I/C, Centre for Sociological Studies : Member
7. Dr. Abodh Kumar, Head, I/C, Centre for Economic Studies & Policies : Member
8. Mr. Suresh Kurapati, Head, I/C, Centre for Foreign Languages (English) : Member
9. Dr. Akhilananda Kumar, Assistant Professor, Department of Physics : Member
10. Dr. Mayank Yuvaraj, Assistant Librarian : Member-Secretary

4.2.2 Provide details of the following:

Question	Answer
Total area of the library (in Sq. Mts.)	<i>Patna Campus:</i> 292.64 sq.mt. <i>Gaya Campus:</i> 74.32 sq.mt.
Total seating capacity	84 Users (44 at Patna & 40 at Gaya).
Working hours (on working days, on holidays, before examination, during examination, during vacation)	Library is open on all working days. During vacation the Central Library is open from 9:00 am to 6:00 pm. During public holidays & Sundays, library remains closed.
Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)	All of the listed facilities are available.



Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection	There are adequate sign boards placed across the library, which provide access to print, and online documents/resources. The collection of the library can be accessed through the web-OPAC also.
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4.2.1 Give details of the library holdings:

a) Print (books, back volumes and theses)

Books	: 21416 (As on January 31, 2015)
Back Volumes	: 444
Project Report	: 224
Other Report	: 41

b) Average number of books added during the last three years

Financial Year	No. of Books Added	Average Number of Books Added during last three years
2011-12	2374	5077 books added yearly
2012-13	6229	
2013-14	6630	
2014-15	2567	
Total	17800	

c) Non Print (Microfiche, AV)

CDs/DVDs : 51

d) Electronic (e-books, e-journals)

e-Books : Nil
e-Journals : 8500

e) Special collections (e.g. text books, reference books, standards, patents)

Textbook and reference book collection has been built up to support the teaching and research activities. Major reports from Government and non-government organization have been collected and organized.

f) Book Banks

No such book bank scheme is introduced because it is not required.

g) Question Banks

Recently Question Bank facility is provided from Examination section.



4.2.4 What tools does the library deploy to provide access to the collection?

- OPAC for Library books.
- CUB E-journal One Search
- Library portal with internet facility to provide access to e-resources.

OPAC

OPAC is accessible through in University's LAN. <http://10.0.3.8/> at Patna and <http://192.168.2.210:9000> at Gaya.

Electronic Resource Management package for e-journals

Central Library subscribes more than 8000 e-journals from various reputed publishers as mentioned below:

SN	Name of the E-Resources	Quantity
1.	ACM Digital Library	131 Journals 1000 Conf. Proc.
2.	Annual Reviews (33 Full Text E-Journals)	33
3.	APA PsycARTICLES (113 Full Text E-Journals)	113
4.	Cambridge University Press (224 Full Text E-Journals)	224
5.	Economic and Political Weekly (1 E-journal)	1
6.	IEEE Explore (ASPP+POP - 416 full text e-journals and Conference Proceedings)	416
7.	JSTOR (2072 full text E-journals)	2072
8.	Oxford University Press(202 full text E-Journals)	202
9.	Portland Press (10 e-journals for Science)	10
10.	Project Muse (493 full text E-journals)	493
11.	ScienceDirect (1036 full text E-journals)	1036
12.	Sage HSS Package (Access to 482 e-journals for 2013 only)	482
13.	SIAM Journals (17 full text E-journals)	17
14.	Springer (1389 full text e-journals)	1389
15.	Taylor & Francis (1173 full text e-journals)	1173
16.	Wiley Blackwell (908 full text E-journals)	908
17.	Nature Biotechnology(1 full text E-journal)	1
18.	Journal of Immunology (1 full text E-journal)	1
19.	The Plant Cell (1 full text E-journal)	1
20.	The Plant Physiology (1 full text E-journal)	1
21.	Transactions of the American Mathematical Society (1 full text E-journal)	1
22.	Journal of Biological Chemistry (1 full text E-journal)	1
23.	Cell Stem Cell (1 full text E-journal)	1
Total		8576

Federated searching tools to search articles in multiple databases

Federated searching tools may be of two types: a) Fee-based b) Free-based

- The University is having access to JGATE- an E-Journals Gateway to Indian



universities and colleges is a bibliographic Database. The access is being provided by INFLIBNET through UGC-Infonet DL Consortium.

- Google scholar is a free Federated Searching Tools.
- The paid software for Federated searching is Fedgate (Informatics, Bangalore) or OCLC's FirstSearch or EBSCO's Discovery Tool.

Library Website

The Central library maintains its website and it may be accessible via <http://10.0.3.8/>

In-house/remote access to e-publications

- In-house access through IP based.
- Remote access through VPN to all faculty members only.

4.2.5 To what extent is ICT deployed in the library? Give details with regard to

The Central library is fully deploying the ICT facilities in every sphere of its activities.

Library automation

In the case of library automation, Central library has deployed an open source Integrated Library Management Software (ILMS) for library automation. KOHA- an FLOSS-based software used in our library to automate all activities of our library services to render a easy and quick service to the users.

Total number of computers for general access : 3

Total numbers of printers for general access : 1 high end printer.

Internet band width speed (a) 2mbps, (b) 10 mbps, (c) 1 GB : 1GBPs

Having 1GBPs Internet connectivity from NMEICT NKN project and NIC wherein implementing authority is BSNL.

Institutional Repository

The library has developed its own institutional repository using DSpace.

Content management system for e-learning

Moodle, a free software e-learning platform may be deployed to develop content for various course materials and learning objects. Video conferencing is used as a method for e-learning.



Participation in resource sharing networks/consortia (like INFLIBNET)

- Member of INFLIBNET under UGC-Infonet Digital Library Consortium
- Member of DELNET, New Delhi

4.2.6 Provide details (per month) with regard to

* Average number of walk-ins : Average number of walk-ins -62 Users approx.

Annual Library User's Statistics recorded at Gate (walk-in) in 2014			
Month	No. of working days	Total no. of User	Average
January	25	1424	56.96
February	23	1479	64.30
March	23	1348	58.61
April	23	1387	60.30
May	26	791	30.42
June	25	269	10.76
July	24	1438	59.92
August	24	2500	104.17
September	25	1132	45.28
October	14	2513	179.50
November	25	2052	82.08
December	26	1242	47.77
Total	283	17575	62.10

* Average number of books issued/ returned: 101 Books

Status of Issue & Return of Books 2014					
Name of the Month	Working Day	Issued books	Returned Books	Total Issued & Returned Books	Average (%)
January	25	1637	1377	3014	120.56
February	23	1335	1432	2767	120.30
March	23	1131	1164	2295	99.78
April	23	1025	1020	2045	88.91
May	26	580	975	1555	59.81
June	25	185	210	395	15.80
July	24	1105	645	1750	72.92



August	24	1819	1786	3605	150.21
September	25	1990	1853	3843	153.72
October	14	941	1145	2086	149.00
November	25	1565	1531	3096	123.84
December	26	958	1338	2296	88.31
Total	283	14271	14476	28747	101.58

Ratio of library books to students enrolled : 1/3rd

Average number of books added during the last four years

Financial Year	No. of Books added
2010-11	2444
2011-12	2374
2012-13	6229
2013-14	6630
2014-15	2567

Average number of login to OPAC : 82 visits per day

Average number of login to e-resources : NA

Average number of e-resources downloaded/printed : 529dwn/month

Number of IT (Information Technology) literacy trainings organized : 03

4.2.7 Give details of specialized services provided by the library with regard to

- * Manuscripts : No
- * Reference : Yes
- * Reprography/Scanning : Yes
- * Inter-library Loan Service : Yes, DELNET.
- * Information Deployment and Notification : Yes
- * OPAC : Yes
- * Internet Access : Yes
- * Downloads : Yes
- * Printouts : Yes
- * Reading list/ Bibliography compilation : Yes
- * In-house/remote access to e-resources : Yes
- * User Orientation : Yes
- * Assistance in searching Databases : Yes
- * INFLIBNET/IUC facilities : Yes



4.2.8 Provide details of the annual library budget and the amount spent for purchasing New books and journals.

FY	Expenditure for Books and Journals			
	Books	Print Journals	E-Journals	Total
2009-2010	18,78,766.00	4,41,627.00	0	23,20,393.00
2010-2011	40,51,148.00	54,10,342.00	2,58,647.00	97,20,137.00
2011-2012	49,94,980.00	27,46,423.00	5,59,319.00	83,00,722.00
2012-2013	1,00,45,734.00	18,06,361.00	44,66,666.00	1,63,18,761.00
2013-2014	88,23,458.00	12,57,814.00	21,31,665.00	1,22,12,937.00
2014-2015	29,99,380.00	69,69,944.90 With E-Journals		99,69,324.90
Total	3,27,93,466.00	1,86,32,511.90	74,16,297.00	5,88,42,274.90

4.2.9 What initiatives has the University taken to make the library a ‘happening place’ on campus?

The CUSB library is centrally located, fully air-conditioned and user-friendly. It is assisted by well-qualified and efficient library staff to help users in their research and academic work. The university has decided to keep the library open from 9am to 6 pm on all working days.

The CUSB library has a specialized collection of more than 20,000 books, national and international print journals, magazines and online journal / database (over 15,000 e-journals) in the area of humanities and social sciences. The library has a separate stack area and reading room. All the online resources can be remotely accessed through VPN. The library remains open on all days except the three national holidays. The library has developed a computerized database of library documents and users. The library has four sections: General, Textbook, Reference and Periodicals.



4.2.10 What are the strategies used by the library to collect feedback from its users? How is the feedback analysed and used for the improvement of the library services?

Developed questionnaire to collect feedback from the students regarding the quality of collection in the library and availability of service.

4.2.11 List the efforts made towards the infrastructural development of the library in the last four years.

Year	Capital Expenditure	Stationery
2011-2012	61,726.00	
2012-2013	9,53,032.00	19,704.00
2013-2014	23,844.00	36,939.00
2014-2015	2,84000.00	27,932.00
Total	13,22,602.00	84,575.00

4.3. IT Infrastructure

4.3.1 Does the University have a comprehensive IT policy

- a. IT Service Management
- b. Information Security
- c. network Security
- d. Risk Management
- e. Software Asset Management
- f. Open Source Resources
- g. Green Computing

IT policy is under process

4.3.2 Give details of the university's computing facilities i.e., hardware and software.

a. Number of systems with individual configurations

Total Desktop Computer: 347

b. Computer- student ratio : 1:3

c. Dedicated computing facilities

- Computer Science
- Bioinformatics
- Psychology
- Communication & Media Studies

d. LAN facility

- Department connected with OFC
- LAN using wired connection



e. Proprietary software

- a. MS-Windows 7
- b. MS-Visual Studio
- c. MS-Office
- d. MATLAB
- e. SPSS
- f. Minitab
- g. RHEL

f. Number of nodes / computers with internet facility

All computers are connected with Internet

g. Any other (please specify)

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

IT policy is under process and once we are in our permanent campus it proposed to provide world class IT facilities to all students and faculty.

4.3.4 Give details on access to on-line teaching and learning resources and other knowledge and information database / packages

Portal List

1. <http://nptel.ac.in/>
2. <http://nmeict.ac.in/>
3. <http://archive.sakshat.ac.in/>
4. <http://fossee.in/>
5. <http://cec.nic.in/E-Content/Pages/default.aspx>

4.3.5 What are the new technologies deployed by the University in enhancing student learning and evaluation during the last four years and how do they meet new / future challenges?

As described above, the university is constantly upgrading technologies.

4.3.6 What are the IT facilities available to individual teachers for effective teaching and quality research?

A high end dedicated desktop computer with NKN (National Knowledge Network) connected internet access, Printing facility and Laptop has been provided to individual teacher. In house and remote access of e-resources is being provided through the VPN server.



4.3.7 Give details of ICT-enabled classrooms / learning spaces available within the university? How are they utilized for enhancing the quality of teaching and learning?

All class rooms are equipped with Multimedia projector, desktop computer with Internet access.

4.3.8 How are the faculty assisted in preparing computer-aided teaching-learning materials? What are the facilities available in the University for such initiatives?

High speed Internet facility in campus. High end multimedia desktop computer and servers available, faculty uses the ICT infrastructure.

4.3.9 How are the computers and their accessories maintained?

Central IT Section maintains the all Desktop Computer, Laptop, Printer, Servers, EPABX and other hardware

4.3.10 Does the University avail of the National Knowledge Network connectivity? If so, what are the services availed of?

Yes. university is using the NKN connectivity and it is connected to Desktop computer of campus network.

4.3.11 Does the University avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?

Yes, it is being provided by Central Library.

4.3.12 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the university.

There is no dearth of funds with the university, expenditure is done as per need from the pooled grant. However, proper budgetary allocation is underway.

4.3.13 What plans have been envisioned for the gradual transfer of teaching and learning from closed University information network to open environment?

Faculty uses audio and video presentation in class room. High speed Internet and multimedia desktop computers are available. Multimedia teaching and learning



material are available using various portals. Further university is participating in MOOCS, may be in future blended learning comes in to play.

4.4 Maintenance of Campus Facilities

4.4.1 Does the University have an estate office / designated officer for overseeing the maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

CUSB has got dedicated Estate Office with designated Estate Officer and an Engineer for overseeing the maintenance of building, class-rooms and laboratories.

The few campus specific initiatives to be undertaken

- Rainwater harvesting facility is planned in all the buildings. All the other rain water is disposed of through open storm water drain collected in an artificial lake created within the campus.
- Energy efficient lighting fixtures.
- Modern solar panel is fixed over admin building for solar energy.

4.4.2 How are the infrastructure facilities, services and equipments maintained? Give details.

Many of the equipments procured and infrastructure facilities created is either on warranty period or on AMC.

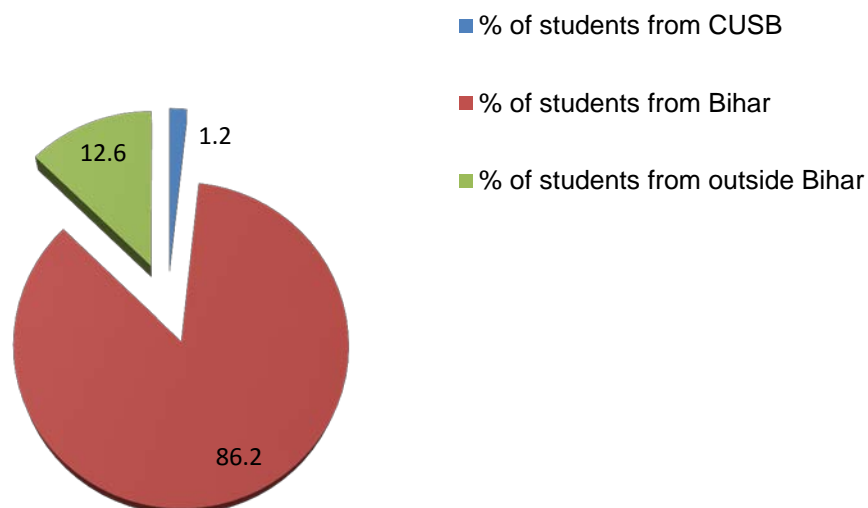
Best Practices

1. Constant upgradation of existing learning resources;
2. Audio-visual teaching learning process;
3. CUSB – discovery service ;
4. Well equipped laboratory;
5. Remote access of e- resources.

Criterion V

Student support and Progression

Diversity of students (2015)





5.1 Student Mentoring and Support

5.1.1 Does the University have a system for student support and mentoring? If yes, what are its structural and functional characteristics?

There is a strong monitoring system in place for students. The students are getting advice and guidance on welfare related issues from the faculty with a wide variety of issues including:

- Accommodation-related issues.
- Academic course, including support to independent learning, extenuating circumstances, exams etc.
- Financial matters, including help with students scholarships.
- Emotional support to advice on personal safety.

The faculty is also offering a variety of services throughout the academic year, including: a timetable of activity during Welcome Week; individual mentoring support. The students receive useful information to tackle important student issues.

5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?

Academic mentoring is to support the professional development of students in their career choices and to promote excellence in learning. Generally, the teachers are always available for individual and personal help after regular classes.

Each department has CC/DC, heads and faculty to oversee the process.

5.1.3 Does the University have any personal enhancement and development schemes such as career counselling, soft skill development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.

All departments at CUSB have a Career Guidance Unit ready to help all the students where to go and how to get there with the objective of.

- Clarify academic and career interests
- Identify connections between your major and career options
- Identify resources to research employers
- Discover job search strategies
- Identify skills and strengths



- Write effective resumes and cover letters
- Prepare and practice for interviews
- Evaluate job offers from potential employers
- Determine a course of action to meet career objectives

5.1.4 Does the University provide assistance to students for obtaining educational loans from banks and other financial institutions?

Yes

5.1.5 Does the University publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?

Yes, university publishes up to date prospectus annually for its students and the same is available on line. It consists of all academic, administrative, financial information.

5.1.6 Specify the type and number of University scholarships / freeships given to the students during the last four years. Was financial aid given to them on time? Give details (in a tabular form) for the following categories: UG / PG / MPhil / PhD / Diploma / others (please specify).

Yes, CUSB provides fellowship and scholarship on time.

Sl. No.	Course	Scholarship
01	UG & PG	<ul style="list-style-type: none"> • Merit Scholarship to CUSBET/Semester Toppers: Merit Scholarship @ Rs. 1000/- pm is awarded subject to minimum 75% class attendance in following semester. • Merit-cum-Means Scholarship is awarded in the form of waiver of tuition fee, upto 20% of students in each programme. • Gate Scholarship: The University offers scholarship to its GATE qualified students admitted in M.Tech programme. • Earn While You Learn (EWYL) Scheme: EWYL is a unique scheme of the University aimed to encourage and support students to make them self-reliant and also develop better cooperation and leadership skills. • Attendance Based Merit Scholarship: Students achieving 100% attendance during a semester are provided book(s) of their choice/need reimbursed up to Rs. 1,000/- at once.
02	M.Tech	<ul style="list-style-type: none"> • All students registered for this degree person with disability get a University fellowship of Rs. 8000/- pm.
03	Integrated M.Phil-PhD.	<ul style="list-style-type: none"> • All students registered for this degree get a University fellowship of Rs. 5000/- pm.



5.1.7 What percentage of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)?

All eligible students will get financial assistance from government and other national agencies.

5.1.8 Does the University have an International Student Cell to attract foreign students and cater to their needs?

Yet to be established

5.1.9 What types of support services are available?

For overseas students,

NA

For differently-abled students,

Financial assistance to physically challenged and weaker section students is provided to meet the transport expenses. Students with 40 % or more disability whose monthly income does not exceed Rs.15000/- are eligible for Rs.1000/- per month scholarship.

For students belonging to economically weaker sections,

University Merit-cum-Means scholarship is awarded to non SC/ST students in all programme of the university strictly on Merit-Cum-Means basis and on the recommendation of Scholarship committee. A maximum of 20 % of the non SC /ST students in all programmes are considered for scholarship. Merit-cum-Means scholarship is awarded in the form of half or full tuition fee.

For students participation in various competitions / conferences

University bears total expenses including travel to participate in the competitions / conferences organized by Association of Indian Universities and other educational institutions.

5.1.10 Does the University provide guidance and/or conduct coaching classes for students appearing for Civil Services, Defence Services, NET/SET and any other competitive examinations? If yes, what is the outcome?

- **Overseas students:**

At present there are no overseas students



- **Physically challenged/differently-abled students:**
All types of infrastructural facility as per MHRD is extended from Physical infrastructure, freeship, scholarships, fee concessions, books, are provided
- **SC/ST, OBC and economically weaker sections:**
As per Government norms
- **Students participating in various competitions/conferences in India and abroad:**
- Financial assistance like registration fee, travel and other logistics are provided to all the students who attend conferences and other competitions including sports.
- Health centre, health insurance etc. like Vidyarthi mediclaim insurance is in place. There is a health care centre at the campus and all the students are covered with insurance up to 1 lakh rupees.
 - **Skill development (spoken English, computer literacy, etc.)**
Yes, students are given training and facilities.
 - **Performance enhancement for slow learners**
Special coaching at department level is given to slow learners.
 - **Exposure of students to other institutions of higher learning/corporate/business houses etc:**
Yes, all students are exposed to these in the form of compulsory internships and project work.
 - **Publication of student magazine:** Not yet done

5.1.11 Mention the policies of the University for enhancing student participation in sports and extracurricular activities through strategies / schemes such as:

- **Additional academic support and academic flexibility in examinations:**
A specified number of seats in both the under-graduate and post-graduate courses are earmarked by the Academic Council for admission of outstanding players and sports persons, who have represented their universities/region/state. Relaxation to the extent of 5% of marks in the aggregate or in the subject as the case may be, will be given to such candidates.
 - **Special dietary requirements, sports uniform and materials:**
All the dietary requirements and sports kits are given to the students who participate in sports events.
- **Any other (please specify):**



5.1.12 Does the University have an institutionalized mechanism for students' placement? What are the services provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?

Every department at CUSB has a placement cell and they provide all the necessary support to the students.

5.1.13 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).

**Placement Cell / Students' Achievements in 2014-15 session
Job Placement**

S. No	Name of selected Student	Course	Organisation	No of Students Appeared
1	Mr. Sachindra Mohan Mishra	M.Sc Mathematics	Azim Premji Foundation	37
2	Mr. Asit Assam	M.Sc Mathematics	Azim Premji Foundation	
3	Mr. Abhishek Kumar	MA English	Azim Premji Foundation	
4	Mr. Hari Om Kumar	MA Mass Communication	Care India (NGO)	30
5	Mr. Saket Mani	MA Mass Communication	Care India (NGO)	
6	Mr. Vivek Raj Aryan	MA Mass Communication	Care India (NGO)	
7	Mr. Steve Kurtis	MA Development Studies	Care India (NGO)	
8	Mr. Pradeep Kumar	MA Development Studies	Care India (NGO)	
9	Mr. Anand Kashyap	MA Development Studies	Care India (NGO)	
10	Mr. Gunjan Kumar	MA Development Studies	Care India (NGO)	
11	Ms. Priya Suman	M.Sc Environmental Science	Carbon Check (India)	NA

5.1.14 Does the University have a registered Alumni Association? If yes, what are its activities and contributions to the development of the university?

Yes the Alumni Association is in its preparatory stage. Office bearers for the CUSB Alumni association have been identified and it is being planned to organize Alumni meet.

5.1.15 Does the University have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?

The grievance redressal cell is in place. But no grievance reported till date.



5.1.16 Does the University promote a gender-sensitive environment by (i) conducting gender related programmes (ii) establishing cell and mechanism to deal with issues related to sexual harassment? Give details

Yes, there is a Women's Cell which function to achieve the following :-

- i. To analyse and assess the extent to which the existing arrangements for safety of women are adequate on the campus of the institution;
- ii. To identify shortcomings in the existing system and to suggest measures to put strong safeguards in place;
- iii. To evaluate Grievance Redressal mechanism for gender specific concerns, and to suggest measures to strengthen these;
- iv. To suggest academic measures and action programmes to bring about changes in practices and attitudes within the society towards recognizing the fundamental rights to gender equality;
- v. To suggest how gender education and sensitization can be made an integral part of the university curriculum in all subject domains;
- vi. To suggest how awareness of gender sensitive issues be made an essential eligibility criterion in the future recruitment of university staff, both teaching and non-teaching.

5.1.17 Is there an Anti-Ragging Committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?

Yes, CUSB strictly adheres to the UGC Regulations on "Curbing the Menace of Ragging in Higher Educational Institutions (2009)" as issued and amended by the UGC from time to time. There is no such any instance/s of ragging at CUSB till date.

5.1.18 How does the University elicit the cooperation of all its stakeholders to ensure the overall development of its students?

CUSB has MoUs with few reputed Non-government agencies and industries like to support the development of students and fine tuning the curriculum/syllabi.

5.1.19 How does the University ensure the participation of women students in intra- and inter institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.

Sports activities:



- i. The university provides sports schedule in the academic calendar which is distributed to all the students at the beginning of the academic year.
- ii. University Sports Committee conduct various sports activities for both boys and girls students at the throughout the academic year.

Cultural activities:

CUSB for the past 6 years has been organising its cultural and sports events where the students actively participate and organise the events.

5.2 Student Progression

5.2.1 What is the student strength of the University for the current academic year? Analyse the Programme-wise data and provide the trends for the last four years.

2015-16	778
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Programme Name	2011	2012	2013	2014	2015
Five Year Integrated BA.LLB (Hons)	-	-	30	45	56
Five Year Integrated BSc.LLB (Hons).	-	-	20	27	25
Four Year Integrated BA.BEd	-	-	32	33	50
Four Year Integrated BSc.BEd	-	-	31	24	26
B.Voc (Arts & Crafts)	-	-	-	-	14
M.Sc. Bioinformatics	11	14	19	26	13
M.Sc. Biotechnology	-	21	18	25	27
M.Sc. Life Science	-	08	20	22	27
M.Sc. Computer Science	20	20	17	24	25
M.Tech Computer Science	-	18	15	18	11
M.Sc. Environmental Science	21	19	19	26	22
M.Sc. Mathematics	05	12	20	22	26
M.Sc. Statistics	02	03	04	08	10
MA Communication & Media	13	16	21	32	30



MA Development Studies	15	17	14	11	05
MA Psychology	05	03	03	08	05
MA Economics	-	05	13	14	09
MA Political Science & International Relations	-	-	08	04	07
MA Sociology	-	01	06	04	02
MA English	-	03	12	12	05
MA Hindi	-	-	05	03	04
All Integrated MPhil-PhD	-	-	-	25	09

5.2.2 What is the programme-wise completion rate during the time span stipulated by the university?

100%

5.2.3 What is the number and percentage of students who appeared/ qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.?

The following students have qualified at national level:-

Fellowships - SRF / JRF / NET			
S. No	Name of Student	Course	Name of Fellowships
1	Ms. Shikha Agarwal	MPhil-PhD Computer Science	CSIR - Senior Research Fellowship (SRF)
2	Ms. Anumeha	M.Sc Life Science	GATE & JRF, also selected for PhD Programme in Indian Institute of Science (IISc) Bangalore
3	Mr. Jayavardhan Kumar	M.Sc Life Science	GATE
4	Ms. Riddhi Prabha	M.Sc Life Science	GATE
5	Mr. Soumyajyoti Ghosal	M.Sc Life Science	UGC-NET
6	Mr. Paramjeet Prabhakar	M.Sc Biotechnology	GATE
7	Mr. Pritam Kumar	M.Sc Biotechnology	GATE
8	Ms. Shikha	M.Sc Biotechnology	GATE
9	Ms. Vandana Kumari	M.Sc Biotechnology	GATE & UGC-NET



10	Ms. Phushpa Kumari	M.Sc Biotechnology	GATE
11	Mohd Shahbaz Iqbal	M.Sc Bioinformatics	UGC-NET
12	Ms. Ambika Kumari	MA Hindi	UGC-NET, also selected for Mphil programme in University of Hyderabad
13	Mr. Aftab Alam	M.Sc Enviornmental Science	UGC-NET
14	Mr. Amrendra kumar	M.Sc Enviornmental Science	UGC-NET
15	Mr. Shardendu	M.Sc Enviornmental Science	UGC-NET
16	Mr.Ramesh Yadav	M.Sc Enviornmental Science	UGC-NET
17	Mr. Om Kumar	M.Sc Enviornmental Science	UGC-NET
18	Mr. Ujwal Pratap	Mathematics	GATE 2015
19	Mr. Sachindra Mohan Mishra	Mathematics	GATE 2015
20	Ms. Sweta Srivastava	Mathematics	GATE 2015
21	Ms. Anuradha Sinha	Mathematics	GATE 2015
22	Mr. Mritunjay Kumar Singh	Mathematics	GATE 2015
23	Mr. Rajeev Kumar	Mathematics	GATE 2015
24	Mr. Sameer Nandan	Mathematics	Bank PO

In addition, several students enrolled in Integrated **Undergraduate programmes** and **Postgraduate programmes** have got summer internship opportunities in prestigious educational / research institutions and various organisations situated in Delhi, Mumbai, Bengaluru along with many other cities of the country.

5.2.4 Provide category-wise details regarding the number of PhD / DLitt / DSc theses submitted/ accepted / resubmitted / rejected in the last four years.

NA: as the Ph.D programme is started in January 2014 only

5.2 Student Participation and Activities

5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation.

1. Mention the policies of the University for enhancing student participation in sports and extracurricular activities through strategies / schemes such as



- Additional academic support and academic flexibility in examinations:

In order to encourage participation of students in annual sports events and to attract audience/ spectators, the university declares no teaching activity for three days.

- Special dietary requirements, sports uniform and materials

Uniform and refreshment is provided to the sports persons participating in the Annual sports events.

- Any other (please specify)

Women's cricket tournament was organized to encourage participation of women sports persons.

University provide sports goods to the students throughout the year for the practice sessions and games, despite of the fact that presently university is lacking own sports ground.

2. List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation.

The details are provided hereunder :-

SPORTS ACTIVITIES (Patna Campus)

- Cricket (Men & Women)
- Badminton (Men & Women)
- Chess (Men & Women)
- Carrom (Men & Women)
- Track and Field (Men & Women)
- Table tennis (Men)

Dates of events for annual sports 2015

Sl.No.	Games / Sports	sports facility / infrastructure / arena / venue	Dates of Event
1.	Cricket (M)	STF Play Ground / B.V. college playground just in front of BIT gate 1	12 th , 13 th January (league match), 20 th January 2015 (Final Match)
2.	Badminton Doubles (MW)	Secretariat Sports Club, Badminton Hall	19 th January 2015
3.	Chess (MW)	CUSB, Patna Campus	16 th January / Continuous
4.	Carom (MW)	CUSB, Patna Campus	16 th January / Continuous



5.	Table Tennis (MW)	CUSB, Patna Campus	16 th January
6.	Kabaddi (M)	Mithilesh Stadium / or explored facility	17 th January
7.	Athletics (MW)	Mithilesh Stadium / or explored facility	17 th January

3. Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.

Achievement of students in intra University annual sports

Annual sports 2015				
Sl.No	Games / Sports	Award	Player	Remarks
Men's Cricket				
1	Trophy to winning team	Rolling Trophy	Team A, Captain, SACHINDRA MOHAN MISHRA (C) (M.Sc. Mathematics 4 th Sem)	Team B defeated Team A in the final match played on 20.01.2015. Team B batted first and scored 111 runs in 20 overs on loss of 9 wickets. Team A got all out on 83 runs in 17. Team B won the match by 28 runs.
2	Man of the series	Cup / souvenir (Big)	DHARMENDRA KUMAR M.Sc. Computer Science, 2 nd Semester	Scored 39 runs and took 8 wickets
3	Best bowler of tournament	Cup / souvenir (Big)	MUKUND KUMAR SINHA Integrated M.Phil.-Ph.D. (Life Science) 2 nd Semester	Took total 6 wickets in the tournament
4	Best Batsman of tournament	Cup / souvenir (Big)	Naveen Kumar M.Sc. Computer Science, 2 nd Semester	Scored 87 valuable runs in the tournament
5	Players of winner team	Golden medal	Names Attached	
6	Players of runner up team	Silver medal	Names Attached	
Women's Cricket				

7	Trophy to winning team	Rolling Trophy	CUSB Batting Divas , Captain, Bhavya Ankita (M.Sc. Environmental Sciences, 4 th Sem)	A women's cricket match was played at Central University of Bihar between two internal teams (CUB SUNRISERS XI vs CUB BATTING DIVAS) for the first time on 28.11.2014 Captain of CUB Batting Divas, Ms. Bhavya Ankita (M.Sc. Environmental Sciences, III Sem) won the toss and choose to bat first. Batting first CUB Batting Divas scored 99 runs on the loss of three wickets in the first innings. CUB SUNRISERS XI chased and scored 89 runs on the loss of two wickets. CUB Batting Divas won the match by 10 runs.
8	Best Player	Cup / souvenir (Big)	Bhavya Ankita (M.Sc. Environmental Sciences, IV Sem)	Scored important 27 runs and lead the team to win.
Badminton Doubles				
9	Winner (Men's Doubles)	Cup / souvenir, (Big)	Suraj Kumar Jaiswal , M.Sc. Life Science, 4 th Sem, Prem Prakash , M.Sc. Life Science, 4 th Sem,	15-11 15-01
10	Winner (Women's Doubles)	Cup / souvenir, (Big)	Amita Kumari, (M.Sc. Environmental Sciences, 2 nd Sem) Priyanka Kumari, (M.Sc. Environmental Sciences, 2 nd Sem)	15-09 15-07
11	Runner (Men's Doubles)	Cup / souvenir	MANISH KUMAR, M. Tech. Computer Science, 4 th Sem	



			RANDHEER BAGI, M. Tech. Computer Science, 4 th Sem	
12	Runner (Women's Doubles)	Cup / souvenir	Bhavya Ankita, (M.Sc. Environmental Sciences, 4 th Sem) Aditi Kumari, (M.Sc. Environmental Sciences, 4 th Sem)	

Annual sports 2014					
Sl.No	Games / Sports	Award			Remarks
Cricket					
1.		Trophy to winning team	Rolling Trophy	CUB Challengers, Captain, RAHUL KUMAR GIRI (M.A. Communication and Media Studies 4 th Sem)	CUB Challengers defeated CUB Daredevils in the final match played on 23.01.2014. CUB Daredevils batted first and scored 124 runs in 20 overs on loss of 7 wickets. CUB Challengers scored 125 runs in 17 overs on loss of 7 wickets and won the match by 3 wickets.
2.		Man of the series	Cup / souvenir (Big)	ABHISHEK KUMAR SINGH, M.Sc. Environmental Science, 4 th Semester	Scored 123 runs and took 6 wickets
3.		Man of the match	Cup / souvenir	RAHUL KUMAR GIRI, M.A.	Scored 35 runs and took



		(final)		Communication and Media Studies 4 th Sem	2 wickets which helped CUB Challengers to win the final match
4.		Best bowler of tournament	Cup / souvenir (Big)	MD. AFTAB, M.Sc. Environmental Science, (2 nd Sem)	Took total 9 wickets in the tournament
5.		Best Batsman of tournament	Cup / souvenir (Big)	ABHISHEK KUMAR SINGH, M.Sc. Environmental Science, 4 th Semester	Scored 123 valuable runs in the tournament
7.		Players of winner team	Golden medal	Names Attached	
8.		Players of runner up team	Silver medal	Names Attached	
Badminton Doubles					
9		Winner (Men's Doubles)	Cup / souvenir, (Big)	AMARJEET KUMAR, M.Sc. Life Science, 2 nd Sem, Manish Kr Tiwari, M.Sc. Computer Science, 2 nd Sem	Won the match in straight 2 sets 15-09 15-05
10		Winner (Women's Doubles)	Cup / souvenir, (Big)	JYOTI KUMARI, M.A. Communication & Media Studies, 2 nd Sem PRAGATI PALLAVI, M.A. Communication & Media Studies, 2 nd Sem	15-10 10-15 15-09
11		Runner (Men's Doubles)	Cup / souvenir	MANISH KUMAR, M. Tech. Computer Science, 2 nd Sem RANDHEER BAGI, M. Tech. Computer Science, 2 nd Sem	
12		Runner (Women's Doubles)	Cup / souvenir	NEHA, M.Sc. Mathematics, 4 th Sem SUCHETA SHARMA, M.Sc. Mathematics, 4 th Sem	
Chess					
13		Winner (Male)	Cup / souvenir, (Big)	DURGESH KUMAR KESHAV, M.A. Economics (2 nd Sem)	



14		Winner (Female)	Cup / souvenir (Big)	RUBY, M.Sc. ENVIRONMENTAL SCIENCE 4 th sem	
15		Runner (Male)	Cup / souvenir	MUKESH KUMAR, M.Sc. BIOTECH, 2 nd Sem	
16		Runner (Female)	Cup / souvenir	BHAVYA ANKITA, M.Sc. ENVIRONMENTAL SCIENCE, 2 nd Sem	
Carom					
17		Winner (Male)	Cup / souvenir (Big)	DURGESH KUMAR KESHAV, M.A. Economics (2 nd Sem)	
18		Winner (Female)	Cup / souvenir (Big)	ANNI KUMARI, M.Sc. Life Science, 4 th Sem	
19		Runner (Male)	Cup / souvenir	RANDHEER BAGI, M.Tech. COMPUTER SCIENCE, 2 nd Sem	
20		Runner (Female)	Cup / souvenir	SWATI SINHA, M.Sc. Life Science, 4 th Sem	

Annual Sports 2013					
Sl.No	Games / Sports	Award			Remarks
Cricket					
1.		Trophy to winning team	Rolling Trophy	CUB Challengers, Captain, Indrajeet Kumar (Economics 2 nd Sem)	CUB Challengers defeated CUB Superkings in the final match played on 22.1.2013. CUB Superkings batted first and scored 95 runs in 18.2 on loss of 10 wickets. CUB Challengers scored 96 runs in 17 over on loss of 6 wickets and won the match
2.		Man of the series	Cup / souvenir (Big)	RAHUL KUMAR GIRI, M.A. Communication and Media Studies (2 nd Sem)	scored 111 runs and took 6 wickets
3.		Man of the match	Cup / souvenir	Paramjeet Prabhakar, M.Sc. Biotechnology	Scored 39 runs and took 3 wickets



		(final)		(2 nd Sem)	which helped CUB Challengers to win the final match
4.		Best bowler of tournament	Cup / souvenir (Big)	Rahul Pal, M.Sc. Environmental Science, (4 th Sem)	Took 10 wickets in 16 overs and gave only 45 runs
5.		Best Batsman of tournament	Cup / souvenir (Big)	RAHUL KUMAR GIRI, M.A. Communication and Media Studies (2 nd Sem)	Scored 111 valuable runs
6.		Fair play	Cup / souvenir	Dhirendra Kumar, M.Sc. Environmental Science (2 nd Sem)	For the player who remained disciplined throughout the tournament, encouraged and motivated teammates for sportsman spirit. Scored 42 runs, by bookish batting styles and took 1 wicket.
7.		Players of winner team	Golden medal	Names Attached	
8.		Players of runner up team	Silver medal	Names Attached	
Badminton					
9		Winner (Male)	Cup / souvenir , (Big)	Avinash Kumar, M.A. Communication and Media Studies (4 th Sem)	
10		Winner (Female)	Cup / souvenir , (Big)	Ratnapriya, M.A. Communication and Media Studies (4 th Sem)	
11		Runner (Male)	Cup / souvenir	Pradeep Kumar, M.Sc. Mathematics (2 nd Sem)	
12		Runner (Female)	Cup / souvenir	Pragya Priyadarshini, M.Sc. Bioinformatics (4 th Sem)	
Chess					
13		Winner (Male)	Cup / souvenir , (Big)	Indrajeet Kumar, M.A. Economics (2 nd Sem) and Uday Prakash Sinha,	Match draw



				M.Sc. Computer Science (2 nd Sem)	
14		Winner (Female)	Cup / souvenir (Big)	Kumari Snehkant Lata, M.Sc. Bioinformatics, 4 th sem	
15		Runner (Male)	Cup / souvenir		
16		Runner (Female)	Cup / souvenir	Rohini Kumari, M.Sc. Bioinformatics, 4 th sem	
Carom					
17		Winner (Male)	Cup / souvenir (Big)	Praveen Kumar Jha, M.Sc. Mathematics (2 nd Sem)	
18		Winner (Female)	Cup / souvenir (Big)	Pragya Priyadarshini, M.Sc. Bioinformatics (4 th Sem)	
19		Runner (Male)	Cup / souvenir	Thakur Prem Kumar, M.A. Development Studies, 4 th Sem	
20		Runner (Female)	Cup / souvenir	Madhavi Dubey, M.Sc. Bioinformatics (4 th Sem)	

SPORTS ACTIVITIES (Gaya Campus)

Policy and Strategies:

- Students are divided into four Houses, i.e. Blue, Yellow, Green and Red so that any sort of polarization can be thwarted and students participate in true spirit of game. Students in each house are selected randomly.
- Students are provided with Jersey of different design and colour
- Annual Sports Meet, Umang is organized annually for the students of Gaya Campus of the University
- Necessary dietary and nutritional supports are provided for the events
- If required flexibility in attending classes are given so that they can participate in large number
- At hostel level selected indoor and outdoor sports facilities are provided



- A hostel committee consisting of students of respective hostel is constituted so that students participation in sports and other extracurricular activities at various levels can be assured

Sports Activities

Annul Sports and Athletics Meet, Umang 2015 was organized during 21-23 February 2015. As a part of the meet following events were organised-

- Kabaddi (Girls and Boys)
- Cricket (Boys)
- Football (Boys)
- Volleyball (Boys)
- 800 Meters Sprint (Girls and Boys)
- 400 Meters Sprint (Girls and Boys)
- 200 Meters Sprint (Girls and Boys)
- 100 Meters Sprint (Girls and Boys)
- 4*100 Meters Relay Race (Girls and Boys)
- Shot Put (Girls and Boys)
- Tug of War

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- Cricket (Boys)
- Football (Boys)
- Volleyball (Boys)
- 800 Meters Sprint (Girls and Boys)
- 400 Meters Sprint (Girls and Boys)
- 200 Meters Sprint (Girls and Boys)
- 100 Meters Sprint (Girls and Boys)
- 4*100 Meters Relay Race (Girls and Boys)
- Shot Put (Girls and Boys)

Major Sport related Achievements by Students outside the campus

- Sumit Kumar (BA LLB, Vth Semester) won **silver medal** in 70-75 kg weight category in 3rd National Jomasar Karate Championship held in Kolkata during 19-21 December 2014
- Sumit Kumar (BA LLB, Vth Semester) won **Bronze Medal** in under 21 age category and 70-75 Kg weight sub category in KAI Sub-Junior, Cadet, Junior and Under 21 National Karate Championship held in Talkatora Indoor Stadium, New Delhi during 30 May-1 June 2014



STUDENTS LED CULTURAL, EXTRA- AND CO-CURRICULAR ACTIVITIES

Policy and Strategy- Apart from the creative and cultural activities conducted by the University's Cultural Committee, the University gives a creative environment to the students to form their groups and express themselves. Two prominent groups that have emerged are **BARSA** and **FRIENDS AND COMPANY (F&C)**. Both these groups regularly register their active presence in campus and involve students and teaching communities in creative participation. Following is a list of events organised by these two groups.

Activities by BARSA

- ❖ BARSA organised freshers' day, AAGAZ; farewell day, KARWAN; end – sem celebration, PARWAZ.
- ❖ BARSA regularly organised film screening and academic discussion, usually on Saturdays, under the VIBGYOR section.
- ❖ BARSA regularly organised Rangoli competition, poster competition, Quiz competition, cartoon exhibition etc.
- On 18 Jan 2014- Saturday Movie Screening (Omkaara) by the VIBGYOR section
- 24 Jan 2014- QUIZ COMPETITION by JIGYASA/BARSA
- 25 Jan 2014- Saturday Movie Screening (*Hazaron Khwaishein Aisi*) by the VIBGYOR section.
- 31 January 2014- “ Reading ‘ANDHA YUG’” by the AKSHAR, Literary Forum of VIBGYOR
- 1 February 2014- Movie screening of ‘Dr. Babasaheb Ambedkar’ under the section VIBGYOR:
- 3 February 2014- Rangoli & Paint” competition was organised by TITLI
- 4 February 2014-THE WALL, the wall magazine of CUB was launched
- 8 February 2014-‘Turtles Can Fly’ (2004) was screened by the VIBGYOR section
- 7 February 2014-Reading Raspriya by the AKSHAR Section



- 18 February 2014 Debate Competition on ‘Article 370’ was organised by the – EXPRESSIONS section
- 25 February 2014- Movies Screening by the VIBGYOR : ‘Life is Beautiful’ (1997),
- 8 March 2014- Movies Screening by the VIBGYOR: ‘Highway’ (2014).
- 22nd March 2014- VIBGYOR : Tributes to KHUSHWANT SINGH by screening ‘Train to Pakistan’ (1998)
- 7 April 2014-OPEN HOUSE DISCUSSION on the theme “16th Lok Sabha Election – Democracy Vs Mobocracy!”
- 16 April 2014- ‘Remembering Dr. BR Ambedkar’ by EXPRESSIONS
- 17 April 2014- ‘NANO : THE EXCITEMENTS’ – a Lecture session on Nano Technology was organised by EXPRESSIONS.
- 2 August 2014- VIBGYOR screened “Million Dollar Baby” (2004, English, Clint Eastwood)
- 9 August 2014-VIBGYOR Screened “Jaane Bhi Do Yaaro”
- 20 August 2014 As part of 68th Independence Day AKSHAR organized Write it @ home ESSAY COMPETITION
- 22 Aug 2014- Patriotic Song Competition & Speech Competition were organised
- 23 August 2014- Open House Discussion Session on the theme AFSPA: Right to Protest and Democracy [Irom Chanu’s Struggle in Manipur] was organized.
- 27 August 2014- A panel discussion on theme AFSPA: RIGHT TO PROTEST AND DEMOCRACY was organized
- 30 Aug 2014-In memory of UR Ananthamurthy, VIBGYOR is organized Talk and Film Screening
- 13 September 2014- Freshers’ Party “Aagaz” was organized.
- 25 September 2014- “Hindi Kavitha Ka Naya Swar”; Poetry Session with the Young Hindi Poet ‘Anuj Lugun’ was organized.



- 14 March 2015- Screening of BIRDMAN (2014) and Discussion
- 16 -20 March 2015 FEARLESS IMAGES’ – Cartoon Exhibition was organised
- 21 March 2015-The VIBGYOR section screened movie Damul
- BARSA organised a film show of “Bade Bhai Sahab” followed by a discussion, celebrating Premchand Jayanti.
- 21 Aug 2015- The VIBGYOR section screened movie Damul: Drishyam

Activities by F&C

- F&C, Safai Abhiyan.
- 23 March 2015-F&C published a Magazine, AAINA and organised a Street Play called, “Hume Azadi Chahiye
- F&C Started a student’s board exhibition called JOKES APART.

STUDENT CENTRIC ACTIVITIES AT CENTRE FOR EDUCATION

- 25 October 2013-Two sessions on **Educational Guidance** were organised by the faculty members of Centre for Education for B.A.B.Ed and B.Sc. B.Ed. students.
- **22 Novemeber 2013- Guidance and counselling session** was organised by the faculty members for students of B.A.B.Ed and B.Sc. B.Ed. programme.
- 24 January 2014-A **lecture** entitled “ **Preparation of Achievement Test**” was delivered by Prof. S. B. Bhattacharya, Former Dean, Faculty of Education, Banaras Hindu University
- 31 January-2 February 2014- An **Experts Meet in Education** was organised to develop syllabus of Education Courses in Integrated BA/BSc.BEd, Course Structure of M.Ed. and Course Structure of Integrated M.Phil.-PhD in Education. In this meet Prof. Anita Rastogi, Head, Department of Educational Studies, Jamia Millia Islamia, New Delhi, Prof. N. N. Pandey, Ex-Dean, Faculty of Education and Allied Sciences, MJP Rohilkhand University, Bareilly, (U.P.), Prof. S. C. Agarwal, Head, Department of Education, CSJM University, Kanpur (U.P), Prof. P. K. Sahoo, Ex-Head, Department of Education, University of Allahabad, Allahabad. (U.P.) and Prof. U. C. Vashishtha, Ex-Head and Dean, Faculty of Education, Lucknow University, Lucknow (U.P.) participated as external experts.
- 14 February 2014-A **talk** on “*Ancient Education System in India*” was delivered by Dr. Sudhanshu Ku. Jha, Assistant Professor (History), CUB on **14.02.2014**



- 13 March 2014- An **Extempore Speech Competition** was held for the B.A B.Ed. and B.Sc. B.Ed. students on the theme “ Women in the Present Era”.
- 27 March 2014- A **poster competition** was organised for the students of the centre on the theme “**A Classroom**”
- 17 April 2014- Role plays on “Environmental Issues” were performed by the second semester BA.BEd and BSc.BEd students.
- 09-21 June 2014- Three students of BSc.BEd second semester (Rohit Kumar, Alok Kumar and AkankshaKumari) attended the summer training of the Mini Mathematics Training and Talent Search(NTSS) programme.
- 7 August 2014- A lecture on “Transmission and Guiding of electrons through insulating nano capillaries and comparison with ion guiding” was delivered by Dr. Susanta Das(UGC Assistant Professor, Department of Physics, CUSB).
- 21 August 2015- A term paper presentation on “Biography of Scientists and their remarkable contribution in the world of Science” was organised by the students of BSc. BEd under science club activities on 21.08.2014. Three students of BSc. BEd third semester i.e Anzar Hassan, Amit Kumar and Rohit Kumar presented papers on Ernst Rutherford, S.N Bose, C.N.R Rao respectively.
- 18 September 2014- A PowerPoint presentation on “Ebola Virus” was delivered by AshutoshPrabhakar(BSc.BEd, 3rd semester) under Science Club Activities.
- 5 September 2014- The birth anniversary of Dr. SarvapalliRadhakrishan was celebrated.
- 16 October 2014- A poster competition was organised for the BA.BEd and BSc.BEd students on the topic “Sanitisation, Public Hygiene and waste management”.
- 22 October 2015- An essay competition on “Role of Educational Institutions in Clean India” was organised for the BA.BEd and BSc.BEd students.
- 11 November 2014- On the eve of National Education Day, a speech competition on “Right to Education: Dream or Reality” was organised.
- 15 November 2014- A talk on “Oppenheimer and Bhagvadgita” was delivered by Kushagra Rohatgi(BSc. BEd, 1st semester) and Aman Ranjan (BSc.BEd 1st semester) under Science Club Activities.
- 17 Novemeber 2014- On the occasion of International Students Day, an interactive session was arranged separately for first semester and third semester students of the



Centre for Education on the topic” Shikshit Bharat-Saksham Bharat: Quality Education for All”.

- 20 November 2014- A PowerPoint presentation on” Vedic Mathematics” was organised by Vivek Kumar Rawat (BSc.BEd 1stsemester and Neeraj Kumar (BSc.BEd 1st semester) under Science Club Activities.
- 27 November 2014- A presentation on “Raman and his Legacy” was delivered by Tathagat Kaundinya (BSc.BEd 1st semester) under Science Club Activities.
- 18 November 2014- A writing workshop was organised for the BA.BEd third semester students based on the topics on elaborate discussion on the given topic, making a semantic map, outlining the order, elaboration of the sub-topics, precision in languages, choice of appropriate words, writing grammatically correct and balanced sentences and organising the materials. 15 students participated in the workshop under the guidance of Dr. Richa, Course Instructor, Centre for Foreign Languages.
- 04 February 2015- Anupam Ravi, a student of BA.BEd, 4th semester presented a paper in the departmental cultural and Literary Forum on “RashtriyaMadhyamikSikshaAbhiyan” (RMSA).
- 17 March 2015- A presentation on “H. J. Bhabha” was delivered by Anzar Hassan (BSc.BEd. 4th semester) under Science Club Activities.
- 25 March 2015- A presentation on “Swine Flu” was delivered by Ashutosh Prabhakar(BSc.BEd 4thsemester) and Saiyem Iftekhar (BSc.BEd 2nd semester) under Science Club Activities.
- 15 April 2015- A presentation on “Cancer” was delivered by Saiyem Iftekhar (BSc.BEd 2ndsemester) under Science Club Activities.
- 22 April 2015- A presentation on “Plastic” was delivered by Sudha Sinha (BSc.BEd 2nd semester) under Science Club Activities.

ACTIVITIES AT SCHOOL OF LAW AND GOVERNANCE

- 26 Nov 2014-Celebrated and organized Law Day .
- 26 Nov 2014- A street play named “Aurat” based on the script written by Safdar Hashmi was done on law day.
- 26 Nov 2014- Essay writing and quiz competition was also held on law day.
- 4-10 Jan 2014- 4 students namely, Vishal kr. Singh, Amar vivek, Avantika Banerjee and Shwetlana Sinha from law department went to Ranchi University and represented the University as its cultural ambassadors in the Trunotsava



- 13 Feb 2015- a seminar by NHRC on human rights was organized
- During summer vacations many students from the law school did summer internships at Bihar human rights commission, Bihar state legal services authority, People's union for civil liberties, Human rights law network and Patna high court.
- 2 students namely, Shubham Anand and Sumit Kr. Mishra from the law school went to IIT kharagpur to attend a workshop on law.
- 11-15 June 2015-2 students namely, Vishal kr. Singh and Radhika Drolia participated in the ULGULAN: international conference on human rights for young lawyers and human rights activists in Panchgani, Maharashtra. It was held by TISS(Tata institute of social sciences) and Human rights law network
- 15 August 2015- Students of the law school launched their magazine named "PEOPLE'S VERDICT" on 15th aug 2015.

Cultural Activities Programme at CUSB Patna Campus in Year 2014-15

Sl no.	Date	Description	Remarks
1	13.08.2014	Debate Competition(English and Hindi) on 12 th and 13 th August 2014 topic on "Globalization is a threat to cultural ethics"	Anand Kashyap(DVS)-1 st Prize, Surjeet Goyal(CMS)-2 nd Prize and Anurag Kr. Mishra(CMS)-3 rd Prize in Hindi Debate and Wali Sabina(CMS)-1 st , Anand Kashyap(DVS)-2 nd and Dhananjay Kumar(MTech Comp. Sc)-3 rd in English Debate.
2	07.09.2014	Onam Celebration	Celebrated by the student of CUSB, Patna Campus
3	14.09.2014	Hindi Noting, Drafting and Quiz Competition held on Hindi Diwas	Mrs. Kiran Bela Kujur-1 st Prize, Mr. Jitesh Kumar, LDC-2 nd Prize and Mr. Dhanji Prasad, Attendant-3 rd prize winner of the competition
4	04.10.2014	Rangoli Making Festival in September'2014	Organized at Patna Campus
5	14.11.2014	The birth anniversary of Maulana Abul Kalam Azad, the first education minister of independent India celebrated as National Education Day on 11 th November 2014	Skit on Women Empowerment was organized at Patna Campus under the Supervision of Dr. Anindya Deb, Assistant Professor
6	15.12.2014 to	Tarunotsava-2014, 30 th Inter-University East Zone Youth	Cultural programme organized under guidance of Coordinator,



	19.12.2014	Festival, 2014	Cultural Activities Committee.
7	25.12.2014	Essay Writing Competition on "Use of Technology and Innovation in promotion of Good Governance" on the eve of Good Governance Day (25 th December 2014)	Dr. Alok Kumar Gupta, Associate Professor- 1 st Prize, Mr. Sagar Kumar Verma, LDC- 2 nd Prize and Mr. Pratish Kumar Das, Hindi Officer & Mr. Sudeep Kumar, LDC- 3 rd Prize winner of the Essay Writing Competition.
8	21.06.2015	International 'Yog Diwas'	Yoga Session has been organized under the supervision of Dr. Anindya Deb, Asstt Prof.
9	14.08.2015	Art Competition on 14 th August, 2015 on the occasion of Independence Day Celebration 2015	Smriti Kumari (PSY)-1 st , Avinita (Maths)-2 nd and Ruchi(CMS)-3 rd prize winner
10	31.08.2015	Foundation Stone laying Ceremony on 31/08/2015	Organized at Gaya (Panchanpur)
11	05.09.2015	Foundation Day Ceremony on 05/09/2015	Organized at Patna Campus
12	05.09.2015	Teachers' Day	Celebrated at Patna Campus and cultural program has been organized

5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.

As at 5.3.1

5.3.3 Does the University conduct special drives / campaigns for students to promote heritage consciousness?

Yes, heritage is the representation of the past and the invisible wealth of any nation. The State of Bihar is rich in its heritage cultural as well as architectural. It is very important for this university to pay much attention to the conservation of ancient heritage. The preservation of heritage monuments is the utmost task of the current world. It has been planned to constitute a committee dedicated to organize special drive / campaigns for students to promote heritage consciousness. This university is situated in the state of Bihar where large numbers of heritage sites are available. In order sensitize students towards our past glory it is prerogative to campaign for heritage consciousness. University has taken this task to inculcate heritage consciousness among students, faculty and neighbourhood citizens. The CUSB is planning to understand the perception of local people on the importance of tourism to their livelihood, explore the heritage consciousness with educational backgrounds.



5.3.4 How does the University involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the last four academic sessions.

Students are encouraged to publish their material through different medium like scientific journals, magazines/Newsletters.

5.3.5 Does the University have a Student Council or any other similar body? Give details on its constitution, activities and funding.

Student Council has been recently constituted

5.3.6 Give details of various academic and administrative bodies that have student representatives on them. Also provide details of their activities.

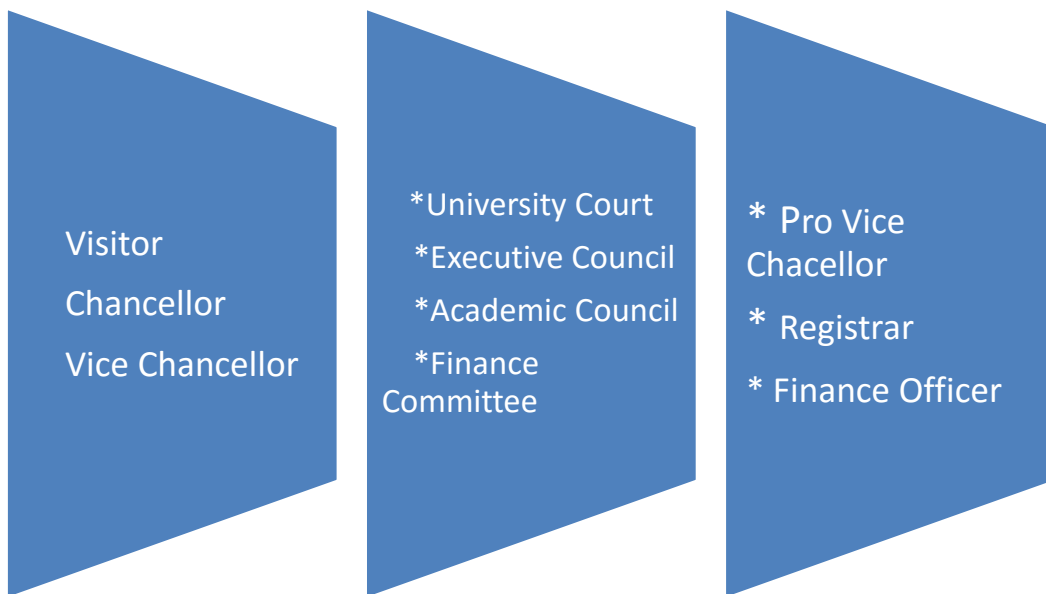
- Task Force for Women
- Hostel Committee
- Anti Ragging Committee

Best Practices

1. Well planned induction cum orientation program;
2. Academic and individual monitoring support for students if required;
3. Career guidance;
4. Scholarship to needy students; and
5. Support for students to attend conferences/workshops etc.

Criterion VI

Governance, Leadership and Management





6.1 Institutional Vision and Leadership

6.1.1 State the vision and the mission of the university.

- Established under the Central Universities Act, 2009 (Section 25 of 2009) as Central University of Bihar (CUB) and the name since changed by the Central Universities (Amendment) Act, 2014 to Central University of South Bihar (CUSB) is an institution of higher learning in the state of Bihar. With the motto, i.e. 'Collective Reasoning' the university has been conducting its academic and administrative activities from temporary premises in Patna and Gaya and looking forward to shifting to the permanent campus on a 300 acre plot of land at Panchanpur (near Gaya town).
- *"... to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit; to make special provision for integrated courses in humanities, social sciences, science and technology in its educational programmes; to take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research; to educate and train manpower for the development of the country; to establish linkages with industries for the promotion of science and technology; and to pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development."*
- **Mission: "Collective Reasoning for a better tomorrow" through academic research, development and dissemination.**

University has made provisions to ensure quality, both in its teaching research and in the administration. All teachers and officers are provided with laptop. ICT facilities to all students/teachers/staff are extended and Wi-fi environment is available in all officers, classrooms and library.

The university has invited many eminent scholars both from abroad and from within to deliver special lectures to the students/staff. Teachers are regularly deputed to seminars/conferences to present paper in national/international conferences. Most of the teachers have on-going projects funded/supported by funding agencies. Two/three rounds of recruitment of both teaching and non-teaching staff respectively have been completed and they are in place. Online/e-journals are subscribed to and the collection in the library is constantly updated. The university has procured 250 systems with



internet facility and free access to student through the lab staff monitor the activity. The university recognizes the diversity in its students and considers it as enrichment to its academic and cultural life.

6.1.2 Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, its vision for the future, etc.?

Yes, the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society and the students it seeks to serve. In sync with higher education policy of India university has time and again dedicated itself to enabling students for leadership and finding solutions to big challenges in this complex world. At the university, students are imbued with extraordinary freedom to explore, collaborate and challenge themselves while pursuing postgraduate studies. The university believes that learning is a life-long process and therefore, aims to train students as 'autonomous learners'. The university believes this to be one of the key elements in carving out a successful career. Coupled with it, is the university's belief in equipping the students with skills some of which are enumerated as follows:

- Well versed in state-of-the-art technology in their respective fields.
- Being confident in a challenging situation and honest in action.
- Ability to work in a group while making a meaningful contribution.
- Adaptable with externally controlled parameters at various levels.

The university has over the years tried to implement the above mentioned mission statement by proactively embracing the following approaches:

- I. Hand-on experience for students through active and inclusive research in cutting edge areas of science.
- II. Capacity building through 'Beyond the Classroom' approach which involves
 - i. Education and personality development - ECPDT (Effective communication and Personality Development) .
 - ii. Entrepreneurship – IEDC
 - iii. Spirit of enquiry and self-discovery-
 - v. Social outreach



- vi. Skill development amongst students
- vii. Mentoring of students for their personal and academic problems.
- viii. Remedial classes
- ix. Technology enabling of students - A dedicated web-facilitation Centre with internet enabled computers and a fully wi-fi campus.
- x. Promoting computer literacy amongst all stakeholders in the university namely students, faculty and non-teaching staff through hands-on promotional workshops.

The university is sensitive to the economic under-pinning of its student population. Thus, it is a constant endeavor to carry out all its activities with provisions for the disadvantaged sections.

6.1.3 How is the leadership involved in ensuring the organization's management system development, implementation and continuous improvement?

The leadership is involved in following ways in ensuring the organization's management system development, implementation and continuous improvement:

- the policy statements and action plans for fulfillment of the stated mission;
- formulation of action plans for all operations and Incorporation of the same into the institutional strategic plan;
- Interaction with stakeholders;
- Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders; and
- Reinforcing the culture of excellence.

In order to ensure the implementation of the university policies and goals following approach is generally adopted by the leadership.

The Vice Chancellor strongly believes in delegation of responsibilities, be it to the dean, HoD, faculty, conveners of the committees or proctors and wardens.



The VC believes in the strength of the collective decision making, and in collaboration and consultation being the best means of reaching a logical consensus and rational decision. Consultation through participative 'thought sharing sessions' amongst the various members at all levels i.e. departmental committees, university committees constituted in the staff council lead to identification of the methods to adopt in keeping with the vision. After a careful and critical analysis, a suitable action plan is figured out to realize the goals. In all such sessions and activities the leadership's role has always been very supportive, stimulating and encouraging.

The approach and operational modality for the implementation of the action plan is '*all inclusive*' involving all the stake holders.

Needless to mention that excellence is always '*in focus*' of all the actions taken up. The participative role of all the stake holders and components works as a lubricant in the hassle free implementation of the action plan. The contribution of students as important stakeholders in matters directly of concern to them has never been undermined.

Implementation of the policies and plans in the spirit of the above requires a constant planning, execution and monitoring on the part of the key functionaries of the university viz. the Executive Council. The Executive and Academic Council with the Vice Chancellor as Chair is responsible for all academic and co-curricular as well as extracurricular activities in the University and owns the responsibility with regard to the academic, financial and administrative matter.

The Executive Council formulates policies that are conducive to the implementation of teaching programmes in accordance with the norms laid by the Government of India in furtherance of the vision of the university.

The Vice Chancellor and faculty continuously endeavor to bring in innovative and supplementary add-on programmes for the promotion of education, research and buildup of scientific temperament which is invariably supported by the support staff of the university in terms of policy and funds approval.

Departments function through Board of Studies, School board, Heads and Dean.



6.1.4 Were any of the top leadership positions of the University vacant for more than a year? If so, state the reasons.

Yes, the Vice Chancellor's position was vacant for more than one and a half year. This delay in appointment of VC greatly hampered and delayed development of the permanent campus.

6.1.5 Does the University ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?

Yes, the meetings of its statutory bodies are conducted regularly to ensure smooth functioning of the university.

6.1.6 Does the University promote a culture of participative management? If yes, indicate the levels of participative management.

Yes, The CUSB ensures the culture of participative management at all levels of decision making. The procedures adopted by the institution for monitoring and evaluating the policies and the plans are in accordance with the rules and regulations periodically reviewed and formulated by the Executive Council of university. The university functions through various committees duly constituted in a statutory body called the Executive council with the Vice Chancellor in the chair. The Executive council looks into all aspects of functioning of the university through committees that function under it and report to it. CUSB, believes in autonomous, transparent and democratic administration.

The various Committees formed at CUSB include:

- Planning and Development Committee
- Personality development and placement cell
- Admission Committee
- Proctorial Committee
- Examination Committee
- Scholarship Committee
- Cultural Committee
- Time Table and Workload Committee
- Library Committee
- Professional Development and Faculty Enrichment Committee



- Social Outreach Committee
- IT Committee etc.

New ideas are put up in the Executive Council for approval and implementation of various schemes and policies of the institution along with a desired roadmap.

Additional

Committees/subcommittees are formed as and when required for efficient functioning. Decisions taken by the committees are sent to the EC for necessary sanctions and approval (wherever if required).

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The academic leadership to the faculty is provided by the Vice Chancellor, who is the Chairperson of the top managing body i.e. the Executive Council. The Vice Chancellor of the university has often led the university to strive for improvement and excellence. He ensures this through periodic interaction with the faculty, the departments and schools.

6.1.7 Give details of the academic and administrative leadership provided by the University to its affiliated universitys and the support and encouragement given to them to become autonomous.

N/A

6.1.8 Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous universitys?

N/A

6.1.9 How does the University groom leadership at various levels? Give details.

As a natural outcome of the participative and collaborative functioning, the university fosters leadership among its components at various levels. There is a provision of membership in all university bodies like BoS, School Board, AC, EC and other important bodies of administration at various levels.



1. The university appointed a Pro Vice-Chancellor about 2 years ago. The Pro Vice-Chancellor was allocated specific responsibilities and had been given the right to take independent decisions.
2. Similarly the Finance Officer and the Finance Committee are responsible for all financial aspects of running the university. The Vice Chancellor ensures that the Registrar and the Finance Officer are kept aware of all aspects of administering the University.
3. For each committee constituted by the Executive council, a convener is appointed for a term of two years, who is responsible for organizing activities and holding meetings to fulfil the goal.
4. For Departmental functioning Head of the Department is appointed. The Head of the Department is entrusted with the administrative and academic responsibilities pertaining to that department.
5. The teachers are also encouraged to conduct workshops/ seminars/ conferences which give them ample opportunities to learn organizational skills.
6. Further the finance committee of the university shoulders the gigantic responsibility of making purchases in accordance with the General Financial Rules (GFR) of Govt. Of India to ensure the infrastructural growth in a transparent manner.

This process naturally grooms the individuals as conscientious and informed leaders. Today's students are the leaders of the tomorrow. Keeping this in mind, the university takes a conscious effort to sow the seed of democracy in the young minds by giving them a role in the structural set up of the organization. For this purpose , the university nominates class representatives (CR) giving them the first flavour of democracy and the responsibilities of a leader.

6.1.10 Has the University evolved a knowledge management strategy? If yes, give details.

The university is aware of its being a 21st Century institution established in the year 2009 is fast emerging as a global hub of skilled and trained manpower. It is thus necessary that new universities take an active and synergetic role in evolving as socially conscious beacons of knowledge by constantly innovating and updating knowledge and information.

At the CUSB following salient academic features are followed:



- ✓ All courses offered on choice based system
- ✓ Courses inter and multi-disciplinary in content
- ✓ Holistic undergraduate experience
- ✓ Courses planned on credit basis
- ✓ Semester system
- ✓ Continuous evaluation and assessment
- ✓ Relevant and up to date syllabus
- ✓ Academic freedom to students to choose and design their course of study by picking up components of allied, elective, supportive courses apart from their Core Course of study.
- ✓ English Communication, computer training
- ✓ Students sent to academic tours to national/reputed institutions in their field of study for interaction/exposure in country at university cost.

6.1.11 How are the following values reflected in the functioning of the university?

Quest for excellence:

- ✓ Collective professional responsibility for curriculum or pedagogical development
- ✓ Innovation with improvement. High performing systems and commitment to innovation and to increases in satisfaction levels of all.
- ✓ Platforms for change enable and empower people to develop the capacities to design their own innovations and to build teacher capacity in curriculum and development.

6.2 Strategy Development and Deployment

6.2.1 Does the University have a perspective plan for development? If yes, what aspects are considered in the development of policies and strategies?

➤ Vision and mission:

The vision and mission of CUSB is to promote innovation in Teaching and Research.

➤ Teaching and learning:

The Academic plans and proposals are discussed regularly in various bodies. The university has provided ICT enabled Class rooms for all its departments since its inception.



➤ **Research and development :**

CUSB ensures quality research in all its academic departments and helps in curriculum design and development by providing flexibility in curriculum and stream lining syllabi so that the students are able to identify their areas of interest. Research capability of students is enhanced by introducing project work at UG and PG level. Field trips/educational tours are arranged to research laboratories of national importance and other research centres.

➤ **Community engagement:**

There are various designated programs for the community engagement. It has established Innovation Cell to cater the needs of society and its development. CUSB has organised several training programs for community development.

➤ **Human resource planning and development:**

The university has taken proper care for development. CUSB has invited experts for IITs and other developed institutions for Training its staff. CUSB also has deputed its staff for various HR programs organized in other institutions.

➤ **Industry interaction:**

In most of the professional courses at CUSB, there is strong industry-academic interface. A large number of students undergo internship in reputed organisations and carry out projects.

During the past five years, more than 300 students have undergone such training and project work.

Further plans to

- ✓ Organize lectures by experts from the industry and corporate leaders.
- ✓ Interaction during placement, summer training and internship programmes.
- ✓ Inviting personnel from industries as members of Board of Studies. AC etc.

➤ **Internationalisation:**

The university plans through its infrastructure and academic excellence to strive to internationalise itself in terms of research, teaching and related activities in near future.



6.2.2 Describe the university's internal organizational structure and decision making processes and their effectiveness.

The organizational structure broadly constitutes as under:-

1. The Chancellor;
2. The Vice-Chancellor; The Vice-Chancellor is the Chief Executive and Academic Head of the university;
3. The Pro-Vice-Chancellor;
4. The Registrar;
5. The Finance Officer;
6. The Controller of Examinations;
7. The Librarian;
8. Such other officers as may be declared by the Statutes to be the officers of the university;
9. Deans of Schools;
10. Heads of the Departments;
11. Dean of Students;
12. Proctor; and
13. Wardens.

6.2.3 Does the University have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?

CUSB strives to be recognized as a world class centre of learning in quality education.

- ✓ Quality of education and maintain the University as an effective human resource development institution under all changing conditions. A policy statement with operational declaration is being mooted out.

6.2.4 Does the University encourage its academic departments to function independently and autonomously and how does it ensure accountability?

Yes, all departments at CUSB function independently within the scope of curriculum and syllabi, Student's performance in the exams, campus placements, students' feedback, Students and faculty winning various national competitions, awards and externally funded project are an indication of a departments' progress. The annual performance appraisal of the faculty, its assement by the students are important tools for ensuring accountability.



6.2.5 During the last four years, have there been any instances of court cases filed by and against the institute? What were the critical issues and verdicts of the courts on these issues?

Yes, three court cases. One relating to recruitment, one related to rented building and one related to termination of probationer.

6.2.6 How does the University ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder-relationship?

The university tries its best to ensure that grievances/complaints are promptly attended to and resolved effectively. The university till date has not faced any major issue in this regard.

6.2.7 Does the University have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

University obtains feedback from the students regarding teaching of concerned faculty and analyzes it to provide feedback to the faculty.

6.2.8 Does the University conduct performance audit of the various departments?

Yes; Board of Studies and Academic Council are active. Such bodies have external members also. Annual accounts of the University are audited by the office of the Accountant General.

6.2.9 What mechanisms have been evolved by the University to identify the developmental needs of its affiliated institutions?

NA

6.2.10 Does the University have a vibrant University Development Council (CDC) / Board of University and University Development (BCUD)? If yes, detail its structure, functions and achievements.

No



6.3 Faculty Empowerment Strategies

6.3.1 What efforts have been made to enhance the professional development of teaching and non-teaching staff?

Teachers are encouraged to participate in orientation and refresher courses, MDP, FDP, Research workshops regularly. Similarly, they are given full administrative and financial support like appropriate leave. The faculties are also encouraged to attend in national and international seminars, conferences etc regularly by providing financial support. In this connection it should be noted that each faculty is entitled of 30 days duty leave in a calendar year for attending seminars, conferences etc. Research publications are taken seriously by the faculty. The Annual Reports that carry the achievements of the faculty are widely disseminated among the university community. The non-teaching staffs are also encouraged for training to upgrade their knowledge from time to time. They attend trainings in various officials rules, regulations, GFRs, promotions etc.

6.3.2 What is the outcome of the review of various appraisal methods used by the university? List the important decisions.

- Students feedback on courses and faculty: Inputs received from the students on the courses are discussed in the DRC and is utilized while updating the syllabus and strengthening learning/reference resources. Feedback on faculty is communicated to the individual teachers who take cognizance of their individual strengths and weaknesses and resort to corrective measures wherever needed. Vice-Chancellor also interacts with the faculty on this issue.
- Grievance redressal mechanism: Grievance Redressal Cell is promptly responding to the grievances received from the faculty after careful analysis.
- Improvement in library and laboratory and class-room facilities viz., power point presentation facility, computing facility, internet connectivity, access to e-resources within University premises through inflibnet.
- Financial assistance for attending/organizing seminar/conference, and publication grants.
- Membership in the academic and administrative committees constituted by the University empowering the faculty to play participative roles in the University governance.



6.3.3 What are the welfare schemes available for teaching and non- teaching staff? What percentage of staff have benefitted from these schemes in the last four years? Give details.

- Transit accommodation for newly recruited teaching and non-teaching staff.
- Children Education Allowance for all teaching and non-teaching staff as per Govt. of India norms.
- HTC/LTC and medical reimbursement facility as per Govt. of India norms.
- Health care facility for all.
- Festival advances and
- All other policies like child care leave etc of GoI are religiously adopted.

6.3.4 What are the measures taken by the University for attracting and retaining eminent faculty?

- Good infrastructure for teaching and research. A open and consultative culture and thrust upon the fact that eminent faculty is going to establish a new University.

6.3.5 Has the University conducted a gender audit during the last four years? If yes, mention a few salient findings.

No

However following salient findings are being observed

Salient findings:

Gender cuts across all disciplines and has wide ranging implications for human relations in general and education in particular. Most curriculum areas are associated with one gender or other. Our university believes in gender-sensitive approach where we give girl students equal opportunity to participate and enjoy the University education.

Our special enriched programme is designed specially to cater to sensitive issues like gender equality.

The society for women empowerment the university is geared towards alleviating gender based discrimination and trying to eliminate deep-rooted social malice towards women. The university believes in empowerment of women and therefore makes augmented efforts towards ensuring not just physical or psychological well-being of women but complete personality development through psychological /medical counseling, and explanations of laws on women' rights. The CUSB has health sex ratio among all component of the university.



6.3.6 Does the University conduct any gender sensitization programmes for its faculty?

Not yet, But as and when need is felt the university will do this.

6.3.7 What is the impact of the University's Academic Staff University Programmes in enhancing the competencies of the University faculty?

There is no Academic Staff University at CUSB. However, the faculty is attending the Orientation/Refresher Programmes etc at other universities for competency enhancement in the area of research methodology, ICT, teaching-learning strategies, formulating research proposals, updating knowledge in interdisciplinary fields, exposure in emerging and frontline areas of knowledge, work ethics and quality culture.

6.4 Financial Management and Resource Mobilisation

6.4.1 What is the institutional mechanism available to monitor the effective and efficient use of financial resources?

The Central University of South Bihar is fully funded by University Grants Commission. Grants received from UGC are utilized by the university as per GFR provisions, Government guidelines and as per approved delegation of power within the budgetary provisions.

6.4.2 Does the University have a mechanism for internal and external audit? Give details.

Yes, internal audit is ensured by the university and external audit conducted by the Office of Principal Director of Audit, Lucknow, Patna Branch.

6.4.3 Are the institution's accounts audited regularly? Have there been any major audit objections, if so, how were they addressed?

Yes.

(i) Yes.

(ii) Audit objection is promptly replied and no major audit objection is pending for reply.



6.4.4 Provide the audited income and expenditure statement of academic and administrative activities of the last four years.

Copy of income & expenditure account for FY 10-11, 11-12, 12-13 & 13-14 are enclosed as *Annexure – VII (480-483p.)*

6.4.5 Narrate the efforts taken by the University for Resource Mobilisation.

Since Central University of South Bihar is a new University established in 2009 and presently we are functioning from temporary campus. However resource mobilization will be ensured by university once the permanent campus is established.

6.4.6 Is there any provision for the University to create a corpus fund? If yes, give details.

University will formulate corpus fund policy. At present only resource of the university is grants received from UGC and research project under taken by faculties of the university.

6.5 Internal Quality Assurance System

6.5.1 Does the University conduct an academic audit of its departments? If yes, give details.

Not yet, But, Academic output of the departments/ centers are reviewed.

6.5.2 Based on the recommendations of the academic audit, what specific measures have been taken by the University to improve teaching, learning and evaluation?

N/A

6.5.3 Is there a central body within the University to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

The statutory bodies such as EC and AC constantly keep a watch on entire process of teaching learning.

Board CC/DC/CRDC monitor the syllabus.

The assessment is monitored by the respective Deans. The Committee for Advance Studies and Research scrutinizes the research proposals. Finally the AC monitors the teaching and learning process. IQAC assures the quality in teaching and research.



6.5.4 How has IQAC contributed to institutionalising quality assurance strategies and processes?

The IQAC has been recently constituted as per NAAC guidelines. However, the university is conscious of the importance of IRAC. In near future, immediately after NAAC assessment; we will ensure that IQAC function for Quality Assurance as stipulated by UGC.

6.5.5 How many decisions of the IQAC have been placed before the statutory authorities of the University for Implementation?

Not Applicable

6.5.6 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

Yes, Two members

6.5.7 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?

Not yet.

6.5.8 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?

The meetings of the Executive Council (EC), Academic Council (AC), Finance Committee (FC) and Board of Studies are taking place as per schedule. These bodies coordinate and execute general supervision over the academic policies/financial policies/administration policies of the university and keep under review the standard of education and research in the university.

Best Practices

1. Hands on experience for students through active research;
2. Personality development through beyond the classroom approach;
3. Culture of participative management;
4. Training program for community engagement; and
5. Annual performance appraisal of faculty.

Criterion VII

Innovation and Best Practises





7.1 Environment Consciousness

7.1.1 Does the University conduct a Green Audit of its campus?

The university is now functioning from rented buildings; the campus development is in full swing at Gaya. However, after shifting to its own campus in July 2016, the university will adopt a meticulously designed Green Campus policy to ensure earning of carbon credits.

7.1.2 What are the initiatives taken by the University to make the campus eco-friendly?

All buildings in the upcoming campus are eco-friendly green buildings. Further, the university is poised to harvest rain-water and to harness solar energy adopting a strong policy of re-cycling.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the university.

- No incandescent lamps are used anywhere in the campus. All lighting is done using energy efficient tube-light or CFLs or LEDs. Efforts are made to capture the natural light to the maximum.

Water conservations

Glassware in labs are cleaned using biodegradable cleansing agent which consume much less water compared to regular synthetic inorganic detergents.

- (I) The university emphasizes on the use of **one sided/ rough/ used papers** for notices, results, attendance, etc. Most of the information, notices, minutes of the meeting and pay-slips are communicated via E-mail, which reduces the consumption of paper to a great extent.
- (II) Leave applications, joining letters, requisitions are dedicatedly truncated in size to further reduce the use of papers.

Our university has a formal environmental society “Eco club”. This eco-club of our university is an affirmation to environmental concern and adaptation of healthy practices for sustainable development. A series of documentaries on “crime against wildlife” world wetland day celebration were organized by University eco club.



Other innovations:

- The university is sensitive to the special needs for differently-abled people. For that university has contributed **an equal opportunity cell consisting** of members from teaching and nonteaching staff of the University to look after their needs.
- The new campus buildings are designed to be disabled and eco friendly.
- One of the unique programmes initiated Environmental Science students in University is EXPLORE (Excursions for Peer Learning in an Open and Rejuvenating Environment) with a motto that the education does not end within four corners of the classrooms. Funded partially by the University it allows students to undertake excursions, educational tours and field trips.
- Proctorial committee of the university makes extra effort to deal with distracted and disturbed students to solve their problems. At times their parents are also contacted and called to university for discussions.
- In order to facilitate the communications, confidence and interpersonal skills, the career counseling and placement cell organize workshops periodically.
- Workshops on “**Basic Computer Training Programme**” are organized every year in the beginning of each session for new entrants.
- The university believes in mentoring students to solve their academic and personal problems and to bridge the gap between teachers and students.
- Career counseling and placement cell of the university provides training and placement of students in different organizations.
- Under “**Earn while you learn**” programme, the students coming from humble background are given an opportunity to fund their education while working in the university.
- University promotes use of technology in teaching. students are encouraged to use LCD projectors/ visualizer for their presentation in the internet enabled Audio-Video class rooms. Library provides remote access to teaching and learning e-resources. Computer aided teaching is imparted using different software packages like MINITAB, SPSS etc. Biodiversity pro.
- Schedules of **Orientation Day**, Fresher’s day, Founder’s day, Annual fest, Annual day, and Farewell are decided in advance and published in the prospectus. Compliance of



dates and schedules by one and all in the university itself is an evidence of success for this practice.

7.3 Best Practices

7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the university.

The two best practices mentioned below has among other practices of the university, greatly contributed to the achievement of the institutional objectives and/or contributed to the quality improvement of the core activities of the university. This has been affirmed in the university community

BEST PRACTICE -1:

1. Title of the Practice

ELITE – Education in a Lively Interactive Training Environment.

1. Goal

The university envisions interactivity teaching in field where students can collect data, set up and test hypotheses.

2. The Context

The practice is based on ‘learning and doing’. It is believed that the engagement of students in scientific as well as social science research is a critical component of the teaching learning process, which can promote learning, sense of discovery, innovation and collaboration. The exposure to scientific research allows a student to make an informed choice about taking up research as a career. It further provides opportunity to check if the outcomes obtained in the Air-conditioned lab are same in natural condition. It is also believed that promotion of research among students and outdoor exposure may not only lead to solutions for the problems and challenges of the country and the mankind but also help in sensitizing neighborhood common citizen of the country.

4. The Practice

Promoting active participation of students in field and in research projects has been an exclusive feature in CUSB.



Some of the endeavours that have helped university build attributes and indoctrinate culture of research amongst the stakeholders are enumerated below.

5. Problems Encountered and Resources Required

The university does not have any separate fund for the implementation of this practice, thus it has to depend for grant of projects for this purpose from various agencies. The university has innovatively made room for availability of resources for research facing space crunch. However it remains limited and an expansion in these resources can make the research programmes more broad based. Infrastructure requirements of labs remain a challenge since the university is housed in rented buildings.

BEST PRACTICE-2

1. **Title of the Practice:** Declaration of Post Graduate results within 3 weeks from last date of examination.

2. **Objectives:**

Early declaration of result

- To enable students to prepare confidently for the next semester.
- In the case of passing out students, it enables the early planning for career move or for further studies and research and so on.
- The early declaration of results is also an effective strategy that contributes to the improvement of efficiency of work culture.

3. **The Context:-** The implementation of Choice Based Credit System (CBCS) has necessitated the early declaration of results as a student has to select elective course from the 2nd semester.

4. **The Practice:** to achieve early declaration of results within 2 weeks from the last date of examinations has resulted in coordination of the evaluation system that is internalised and centralized in most departments.

5. This enables the examination department to properly verify the respective results compiled by the department /center.



PART - II (C)

DEPARTMENT WISE EVALUATIVE REPORT

School of Earth, Biological and Environmental Sciences

<u>Centre for Biological Sciences</u>	<ul style="list-style-type: none">• Bioinformatics• Biotechnology• Life Sciences
M. Sc. & M. Phil-Ph.D Programme	
<u>Centre for Environmental Sciences</u>	<ul style="list-style-type: none">• <u>Environmental Science</u>





Evaluative Report of Centre for Biological Sciences



Bio-informatics Programme

- 1) **Name of the Department:** Centre for Biological Sciences (Bioinformatics)
- 2) **Year of establishment :** 2011
- 3) **Is the Department part of a School/Faculty of the University :** Yes; School of Earth, Biological and Environmental Sciences
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):** M.Sc. & Integrated M.Phil-Ph.D.
- 5) **Interdisciplinary programmes and departments involved:** Yes
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
No
- 7) **Details of programmes discontinued, if any, with reasons:** Not Applicable
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**
Semester system
- 9) **Participation of the department in the courses offered by other departments :**
Yes (Participation in the Biotechnology and Life Science programmes).
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	Nil	Nil
Associate Professors	02	Nil	Nil
Asst. Professors	04	04	04
Others	--	--	--

- 11) **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D./ M.Phil. students guided/ guiding in last 4 years
Dr. Vijay Kumar Singh	Ph.D.	Asst. Professor	Functional Genomics,	2 years	Nil



Dr. Durg Vijay Singh	M. Tech and Ph.D.	Asst. Professor	Molecular Modeling & Simulation, Drug Designing and Development	3 years	Nil
Dr. Anil Kumar	M. Tech and Ph.D.	Asst. Professor	Genome Annotation & Sequences Analysis, Computational Biology, Biological Database Development, DNA Barcoding	2 years	Nil
Dr. Krishna Kumar Ojha	Ph.D.	Asst. Professor	Computational Biology, Comparative Genomics of Prokaryotes, Molecular Dynamics of biomolecules	3 years	Nil

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

I. Prof. Ashok K Gupta, Former Head, JK Institute of Applied Physics and Technology, Allahabad University, Allahabad.
II. Dr. Sachchidanand, Associate Professor, NIPER, Hazipur.
III. Dr. Andrew Lynn, School of Computational and Integrative Sciences Jawaharlal Nehru University.
IV. Dr. Imran Siddiqi, Computational Biology & Bioinformatics Group, CDRI, Lucknow

13. Percentage of classes taken by temporary faculty: Nil

14. Programme-wise Student Teacher Ratio: 52:04 (13:01)



15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :** One Administrative Staff (LDC)
16. **Research thrust areas as recognized by major funding agencies:** Bioinformatics, Genomics, Transcriptomics, Proteomics, Metabolomics, Molecular modelling and simulation, Drug Designing and Development, Biological database development etc.
17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

S.No.	Name of Faculty	Funding agency	Sanctioned amount	National/ International
1	Dr. Durg Vijay Singh	UGC	6.0 Lakhs	National
Total number of grants received		1		National

18. **Inter-institutional collaborative projects and associated grants received**
- a) **National collaborations:** NIL
- b) **International collaborations:** NIL
19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.** None
20. **Research facility / centre with**
- state recognition
 - national recognition
 - international recognition
21. **Special research laboratories sponsored by / created by industry or corporate bodies:** None
22. **Publications:**

Dr. Anil Kumar :- 03

1. **Kumar A, Chetia H, Sharma S, Kabiraj D, Talukdar ND and Bora U (2015) Curcumin Resource Database. Database. doi:10.1093/database/bav070 - Original Research (Accepted)**
2. **Kumar A and Bora U (2014) Molecular docking studies of curcumin natural derivatives with DNA topoisomerase I and II-DNA complexes. Interdisciplinary Sciences: Computational Life Sciences 6(4):285-91. - Original Research**



3. **Kumar A** and Bora U (2013) Interactions of curcumin and its derivatives with nucleic acids and their implications. *Mini Reviews in Medicinal Chemistry* 13(2):256-64. – *Review Article*

Dr. Vijay Kumar Singh :- 03

1. Valeria Quarona, Gianluca Zaccarello, Antonella Chillemi, Enrico Brunetti, **Vijay Kumar Singh**, Enza Ferrero, Ada Furano, Fabio Malavasi (2013). CD38 and CD157: A long journey from Activation markers to multifunctional molecule. *Cytometry Part B (Clinical Cytometry)*. 2013 Jul-Aug;84(4):207-17. (ISSN – 1552-4957, Impact Factor 2.52).
2. Nanaocha Sharma, Daniele, Simona Aramu, Silvio Grasso, Isabella Russo, Arianna Fiorentino, Sara Cabodi, **Vijay Singh**, Chiara Ghimenti, Giovanna Chiorino, Emilia Turco, Paola Di Stefano and Paola Defilippi (2013). Identification of two regions in the p140Cap adaptor protein that retains the ability to suppress tumor cell properties. *American Journal of cancer Research*. 2013 Jun 20;3(3):290-301. (ISSN – 2156-6976, Impact Factor 3.2).
3. Maurizia Mello-Grand, Paolo Gontero, Giuseppina M. Carbone, Carlo V. Catapano, Giovanna, Chiorino, **Vijay K. Singh**, Laura Cuurti, Nicole Longoni, Chiiara Ghimenti, Maria Scatolini, Andrea Zitell; LincRNA expression data analysis identifies prostate tumor subtypes with distinct biological processes. *AACR Conference Proceeding (Feb. 2012) : 138*

Dr. Durg Vijay Singh :- 09

1. Tripathi A. ,**Singh DV**, Kesharwani RK, Misra K. P-Glycoprotein: A Critical Comparison of Models Depicting Mechanism of Drug Efflux and Role of Modulators. *PNAS, India Section B: Biological Sciences* DOI: 10.1007/s40011-014-0405-9
2. Singh **DV**, Bharti SK, Agarwal S, Roy R, Misra K. Study of Interaction of Human Serum Albumin with Curcumin by NMR and Docking *J Mol Model*. 2014 Aug;20(8):2365. doi: 10.1007/s00894-014-2365-7. Epub 2014 Jul 17. **PMID:**25031079.
3. Kesharwani RK, **Singh DV** and Misra K Computation-based virtual screening for designing novel antimalarial drugs by targeting falcipain-III: a structure-based drug designing approach. *Vector Borne Disease. J Vector Borne Dis.* **2013**; 50(2):93-102. **PMID:** 23995310
4. **Singh DV**, Singh P, Godbole MM, Misra K Curcumin di-O-piperoyl (CDP) and Curcumin di –O-glycinoyl (CDG) Induced Apoptosis via Mitochondrial Dependent Pathway in MCF-7 & MDAMB Cell Lines *Asian Pac J Cancer Prev.* **2013**;14(10):5797-804. **PMID:** 24289580



5. **Singh DV**, Kesharwani RK, Misra K, “Atom based QSAR and pharmacophore study of curcuminoids and curcumin analogs: interaction with thioredoxin reductase Interdiscip Sci. **2013** Dec;5(4):286-95. doi: 10.1007/s12539-013-0177-6 **PMID**: 24402822
6. Singh DB, Manish KG Singh DV “Docking and Insilico ADME studies of noraristeromycin, curcumin and their derivatives with Plasmodium falciparum SAH hydrolase: A molecular Drug target against malaria” Interdiscip Sci. 2013 5(1):1-12 PMID: 23605635 (I.F. 0.672)
7. Singh DV Godbole M.M. Misra K, “A plausible explanation for enhanced bioavailability of P-gp substrates in presence of piperine: simulation for next generation of P-gp inhibitors” J Mol Model. 2013 Jan;19(1):227-38. PMID: 22864626 (I.F. 2.4)
8. Kesharwani RK, Singh D V, Misra K Rizvi, SI “Plant polyphenols as electron donors for erythrocyte plasma membrane redox system: Validation through in silico approach” Org Med Chem Lett. 2012 4;2:12. doi: 10.1186/2191-2858-2-12.PMID: 22475026
9. Singh DV, Agarwal S, Kesarwani RK & Misra K “Molecular Modeling and Computational Simulation of Photosystem-II Reaction Centre to Address Isoproturon Resistance in Phalaris minor” J Mol Mod 2012, ISSN: 1610-2940 PMID: 22426509 (IF 2.4)

Dr. Krishna Kumar Ojha:- 01

1. Ojha KK, Swati D (2015) Archae Profile: A Database of Archaea and their Origins of Replication. J Comput Sci Syst Biol 8:096-098. doi: 10.4172/jcsb.1000174

- * **Number of papers published in peer reviewed journals (national / international): Total: - 16**
- * **Monographs :** Nil
- * **Chapters in Books:** Nil
- * **Edited Books :** Nil
- * **Books with ISBN with details of publishers:** Nil
- * **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): Nil**
- * **Citation Index:** 235 (Total)
- * **SNIP:** Nil
- * **SJR:** Nil
- * **Impact Factor:** 45 (Total)
- * **h-index:** 12 (Total)

23. **Details of patents and income generated:** None



- 24. Areas of consultancy and income generated :** None
- 25. Faculty selected nationally / internationally to visit other laboratories / institutions**
a. industries in India and abroad :
b. Dr Durg Vijay Singh received DST travel Grant (SB/ITS-Y/00608/2013-2014) for World Cancer Congress held in Xian, China 2013.
- 26. Faculty serving in**
- a) **National committees b) International committees c) Editorial Boards d) any other (please specify) :NIL**
- 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**
- Dr. Krishna Kumar Ojha and Dr. Durg Vijay Singh have completed UGC ASC orientation programme from University of Allahabad in June-July 2014.
- Dr. Anil Kumar has completed UGC-HRDC orientation programme from University of Lucknow in May-June 2015.
- 28. Student projects:**
- **percentage of students who have done in-house projects including inter-departmental projects : 100%**
 - **percentage of students doing projects in collaboration with other universities/ industry / institute : 100% (2 months summer internship as a part of master program curriculum)**
- 29. Awards / recognitions received at the national and international level by**
- Faculty
- Dr. Anil Kumar**
Received best poster award at International Consultative Meeting on “Seribiotechnology 2012” (ICMS 2012) on “Development of Seri-Bioresource Database” organized by Institute of Bioresources and Sustainable Development (IBSD) Imphal, Manipur- 795001, India during 5-7th December 2012.
 - Students

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. - Centre for Biological Sciences Bioinformatics has organized a hands on training programme on Basic Bioinformatics between 17-18th February, 2014.

31. Code of ethics for research followed by the departments: Ethics for pursuing research in different biological science areas are being followed according to DBT-IBSC norms.



32. Student profile programme-wise:

Name of the Programme refer to question no. 4)	Session	Selected		Pass percentage	
		Male	Female	Male	Female
PG in Bioinformatics	2014-16	13	11	46.66% (1st to 2nd Sem.)	75.00% (1st to 2nd Sem.)
PG in Bioinformatics	2013-15	08	11	75% (3rd to 4th Sem.)	72.72% (3rd to 4th Sem.)
Integrated M. Phil. Ph.D (Bioinformatics)	2014-onwards	03	0	50%	NA

33. Diversity of students

Name of the Programme (refer to question no. 4)		% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MSc Bioinformatics	2014	0	82	18	0
	2015	0	73	27	0
Int. MPhil- PhD Bioinformatics	2014	50	0	50	0
	2015	100	0	0	0

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. : Md. Sahbaz Iqbal M.Sc Bioinformatics 2013-14 batch student cleared NET examination.

35. Student progression

Student progression	Percentage against enrolled
UG to PG	Not Applicable
PG to M.Phil.	02
PG to Ph.D.	01
Ph.D. to Post-Doctoral	Nil
Employed	



<input type="checkbox"/> Campus selection	Nil
<input type="checkbox"/> Other than campus recruitment	05
Entrepreneurs	Nil

➤ **36. Diversity of staff**

Percentage of faculty who are graduates	
of the same University	Nil
from other universities within the State	Nil
from universities from other States	100 %
from universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : Two

38. Present details of departmental infrastructural facilities with regard to

- a) **Library :-** No
- b) **Internet facilities for staff and students :-** Yes
- c) **Total number of class rooms:-** 01 (One)
- d) **Class rooms with ICT facility :-** Yes
- e) **Students' laboratories :-** Yes
- f) **Research laboratories :-** Yes

39. List of doctoral, post-doctoral students and Research Associates

a) **from the host institution/university**

Mr. Rakesh Kukmar	M.Phil
Mr. Sonu Kumar	

b) **from other institutions/universities:** Nil

40. Number of post graduate students getting financial assistance from the university:

CUSBET-2015 / Semester Topper

1. Ms. Priya Kumari, MSc. Bioinformatics, Session – 2015-17
2. Ms. Shweta Kumari, MSc. Bioinformatics, Session – 2014-16



Merit cum Means Scholarship (MCM):

Fourth Semester (January – June 2015, Session 2013-15)

S No	Name of Students	Category	Programme of Study	GPA in 3 rd Semester	% of Scholarship	Remark
1	Amrendra Kumar 1303122001	OBC	Bioinformatics- 4 th Semester	6.27	100 %	Awarded

Second Semester (January – June 2015, Session 2014-16)

S No	Name of Students	Category	Programme of Study	GPA in 1 st Semester	% of Scholarship	Remark
2	Shweta Kumari 1403122021	OBC	Bioinformatics- 2 nd Semester	8.44	100 %	Awarded
3	Swati Kumari 1403122022	OBC	Bioinformatics- 2 nd Semester	7.22	100 %	Awarded
4	Prafulla Kumar Arya 1403122013	OBC	Bioinformatics- 2 nd Semester	7.89	100 %	Awarded

Attendance Based Merit Scholarship:

Sl	Programme	Name of Student	GPA in Semester-1 st and 3 rd	Attendance (July to December 2014)	Remarks
	2014-16				
1	Bioinformatics -2 nd Semester	Shweta Kumari 1403122021	8.44	100	Awarded
2	Bioinformatics -2 nd Semester	Swati Kumari 1403122022	7.22	100	Awarded
3	Bioinformatics	Archana Kumari	5.67	100	Awarded



	-2 nd Semester	1403122002			
4	Bioinformatics -2 nd Semester	Prafulla Kumar Jha 1403122013	7.89	100	Awarded

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology : Yes, The new programme was started after critical evaluation by the Board of Study (BoS) committee further approved by Academic Council (AC).

42. Does the department/Centre (CBS) obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If Yes how does the department utilizes the feedback?

Centre welcomed feedback from different faculty members for curriculum development as well as teaching learning evaluation. The information provided by faculty member are discussed during the Board of Study (BoS) meeting and incorporate valuable suggestion or points for better shaping up curriculum of the programme.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? At the end of each semester, students fairly evaluate the teaching-learning-evaluation of the respective course instructor who taught a particular subject.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback? We warmly welcome viable suggestions put forward by alumni and try to implement at centre level.

43. List the distinguished alumni of the department (maximum 10) :

The students passing out from Masters Programme are placed in many reputed organizations and institutes. Our placement record is remarkable and the students are performing well wherever they are placed.

Here is a list of students with their performances and placed in various places –

Sl. No.	Name of the Student	Achievements/Placements
1.	Nandan Kumar	Pursuing PhD
2.	Rakesh Kumar	Pursuing Integrated MPhil-PhD
3.	Sonu Kumar	Pursuing Integrated MPhil-PhD
4.	Juli Kumari	DST-Women Scientist (Kiran Scheme)
5.	Shyam Narayan Sharma	BCIL



6.	Shilpa Sri Pushan	BCIL
7.	Swadha PArihar	BCIL
8.	Anjali Kumari	BCIL
9.	Amrendra Kumar	BCIL
10.	Priti Sinha	TCS

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. Yes

45. List the teaching methods adopted by the faculty for different programmes.

Major objectives:

1. To demonstrate knowledge and understanding of theory and practical for the given course.
2. To learn how it is integrated in our daily life and how we can use different approaches to make a better society.

Teaching methods at Centre (CBS) level:

1. Initial 1-2 classes for a given course are focused on revising the basic concept and recalling what students have learnt so far. It helps them to get the perspectives about what new they are going to learn at the higher level.
2. Teaching method includes chalkboard, PowerPoint and audio-visual presentations. PPT is important to explain the complicated figures and mechanisms those are difficult to explain on chalkboard.
3. Providing sufficient class materials including textbook and article references, link for web resources and softcopy of material taught. Digitalisation of teaching material is underway.
4. To better understand the technical aspect of subject, inclusion of research articles to explain the experimental methodology.
5. Involvement of students in ongoing research projects to learn experimental methods and develop research skills.
6. Continuous course evaluation throughout the semester that includes class test (to analyse subject knowledge), extempore (to quickly recall topic and explaining in their own words), assignments (to analyse writing skills), presentations (to develop communication skills), research skill development etc.
7. Encouraging them to attend/present work in scientific meetings, quiz competitions and conferences.
8. Creating awareness about current research and teaching opportunities, preparing



job oriented CV, informing about various job and research opportunities nationally and internationally for their career development. Preparing placement brochure.

46. How does the department/Centre (CBS) ensure that programme objectives are constantly met and learning outcomes are monitored? We have regular meetings both at students and faculty levels to achieve the programme objective and monitor the progress of teaching. Moreover, we have teaching evaluation system in all aspect by the students at the end of the semester.

47. Highlight the participation of students and faculty in extension activities. Students participate in quiz competitions, sports, visit national laboratories and historical places etc.

(a) Participation in workshop :-

1. Rohit Kumar Verma presented a poster in National Conference on Biotechnology and Human Welfare: New Vistas organized by Department of Biotechnology, VBS Purvanchal University, Jaunpur, Uttar Pradesh during 21-22th March 2015.
2. Rakesh Kumar presented a poster in National Conference on Biotechnology and Human Welfare: New Vistas organized by Department of Biotechnology, VBS Purvanchal University, Jaunpur, Uttar Pradesh during 21-22th March 2015.
3. Amrendra Kumar presented a poster in National Conference on Biotechnology and Human Welfare: New Vistas organized by Department of Biotechnology, VBS Purvanchal University, Jaunpur, Uttar Pradesh during 21-22th March 2015.
4. Sonu Kumar presented a poster in National Conference on Bioinformatics Panorama in Agriculture and Health (NCBPAH-2015) organized by the Society of Bioinformatics & Department of Computational Biology and Bioinformatics, JSBB, Sam Higginbottom Institute of Agriculture Technology and Sciences-Deemed-to-be-University, Allahabad-211007, U.P.,India from 5th to 6th October, 2015.
5. Krishnendu Bera presented oral presentation in National Conference on Bioinformatics Panorama in Agriculture and Health (NCBPAH-2015) organized by the Society of Bioinformatics & Department of Computational Biology and Bioinformatics, JSBB, Sam Higginbottom Institute of Agriculture Technology



and Sciences- Deemed-to-be-University, Allahabad-211007, U.P., India from 5th to 6th October, 2015.

6. Krishnendu Bera presented oral presentation at Indian Science Congress conference, organized by Mumbai University, Mumbai, India. during 3rd-7th January 2015.

(b) Participation in quiz: - NIL

(c) Visited National laboratories : During Summer training students have visited different National Laboratories viz, National Institute of Virology, Pune; CIMAP Lucknow; Biotech Park Lucknow; MNNIT Allahabad; CCMB Hyderabad; DDRC-THSTI Gurgaon; IISER Pune etc.

(d) Visited Historical Places: - NIL

48. Give details of “beyond syllabus scholarly activities” of the department/Centre.

- a) Faculty and student actively participate in the weekly CBS seminar.
- b) Participation of students in scientific discussions/debate

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : No

50. Briefly highlight the contributions of the department/Centre (CBS) in generating new knowledge, basic or applied.

Curcumin Resource Database (CRDB) developed by Dr Anil Kumar ...et al. is a valuable resource for research on curcumin and its derivatives. The portal aims to assist drug design and development and create an understanding among masses about the value of traditional knowledge of turmeric, as evidenced from the bitter patent disputes between India and the West. The database can also act as a resource for Intellectual Property Rights (IPR) professionals to help prevent erroneous patents.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department/Centre (CBS).The Bioinformatics programme has its major strength as being bridge between Biology and Information technology. Bioinformatics has become the need of modern day biological research considering the evolution of high throughput technologies and their role in knowledge discovery. The Bioinformatics programme has opportunities to evolve as major coordination and integration point for future biological research.



Strengths-

- Well qualified and motivated faculty members
- National diversity among students.
- Pioneer selection criteria for admission.
- Good academic and research environment

Weakness:-

- Lack of space for expansion of laboratory and class room as we are running in a rented building till now.
- Limited budget for the academic activities

Opportunities: - Emerging opportunities are available in the following areas -

- Setting up the Bioinformatics programme as a Centre for excellence for informatics services to biological sciences.
- Design and development of the resource databases to boost the biological/medicinal research

Challenges –

- Setting up high-performance computational servers with 24 hrs electricity backups.

52. Future plans of the department/centre (CBS) :-

The development of University is no different than development of the faculty itself. The recognition of faculty depends on contribution he/she has made to academic and scientific community. In addition to this, infrastructure development, innovative pedagogy, contemporary and job oriented courses also add to development of the University. Considering these points we have following proposals to develop our centre.

1. We are planning to organise National level conference and workshop to increase interaction of students and faculty with the scientific world
2. One of the short term goal is to build a small Beowulf cluster that will meet the need of cluster computing at the centre.
3. The centre will focus on long term National and international collaborations that will not only facilitate research projects but also provide students the opportunity to learn in a competitive environment.
4. With increasing students and research programme the centre feels to have its own wet Laboratory in addition to computer laboratory.



5. As long term goals we envisage to develop our centre as Centre of Excellence in Bioinformatics equipped with Central Computing facility. This Central Computing facility will interact and provide Bioinformatical services to other centre/department in need.
6. In the long term we would like to develop a programme that that will cut across the boundary of different discipline of biological sciences. The programme will have its core course common to all admitted students and elective paper latter on to provide specialization in particular field.
7. Development of allied Bioinformatics degree courses.



Biotechnology Programme

- 1) **Name of the Department :** Centre for Biological Sciences (Biotechnology)
- 2) **Year of establishment :** 2010
- 3) **Is the Department part of a School/Faculty of the university?:** Yes; School of Earth, Biological and Environmental Sciences.
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):** M.Sc. & Integrated M. Phil. Ph.D.
- 5) **Interdisciplinary programmes and departments involved:** Yes
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc. :** No
- 7) **Details of programmes discontinued, if any, with reasons:** Biotechnology Programme discontinued in the academic year 2011-12. We established practical laboratory during that period.
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System :** Semester system
- 9) **Participation of the department in the courses offered by other departments :** Yes; Participation in the Environmental Science, Bioinformatics, Life Science and Education Programme & Law Programme.
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	Nil	
Associate Professors	02	01	
Asst. Professors	04	04	
Others		One Prof. under FRP	Asst. UGC



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D. / M.Phil. students guided in last 4 years
Dr. Rizwanul Haque	Ph.D.	Associate Professor	Immunology, Stem Cell Differentiation	12 years	1
Dr. Antresh Kumar	M.Phil. Ph.D.	Assistant Professor	Infection Biology and regulation of Secondary Metabolite	5.5 years	1
Dr. Nitish Kumar	Ph.D.	Assistant Professor	Genetic manipulations of Plants; Plant Tissue Culture; Molecular marker development	6 years	1
Dr. Krishna Prakash	M.Phil. Ph.D.	Assistant Professor	Molecular Biology: Interferon (IFNs) Transcription factors, Signal Transduction and Disease.	8 years	1
Dr. Jawaid Ahsan	Ph.D.	Assistant Professor	Molecular Biology, Genetics Neuroethology, Electrophysiology	6 years	0
Dr. Lokendra Kumar Sharma	Ph.D.	Assistant Professor	Mitochondrial Oxidative stresses and Metabolism	6 years	0

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

- (i) Dr. Prolay Das, IIT Patna, visited and shared lectures on Bioprocessing Engineering in 2015.
- (ii) Prof. Ambarish Sharan Vidyarthi, BIT Patna visited and shared lectures on Bioprocessing Engineering in 2014.

13. Percentage of classes taken by temporary faculty: < 5%

14. Programme-wise Student Teacher Ratio: 60/6 or 10/1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : One Administrative Staff (LDC)



16. **Research thrust areas as recognized by major funding agencies:** Immunology, Stem Cell Technology, Plant Biotechnology, Infection biology, Neurobiology & Cancer Biology.
17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

S.No.	Name of Faculty	Funding agency	Sanctioned amount	National/ International
1	Dr. Antresh Kumar	DST	22.1 Lakhs	National
2	Dr. Antresh Kumar	DST	12 Lakhs	National
3	Dr. Antresh Kumar	UGC	6.0 Lakhs	National
4	Dr. Nitish Kumar	DST	23 Lakhs	National
5	Dr. Nitish Kumar	BRNS	23.23 lakhs	National
6	Dr. Nitish Kumar	UGC	6.0 Lakhs	National
7	Dr. Krishna Prakash	UGC	6.0 Lakhs	National
8	Dr. Jawaid Ahsan	UGC	6.0 Lakhs	National
9	Dr. Lokendra Kumar Sharma	DST	23 Lakhs	National
10	Dr. Lokendra Kumar Sharma	UGC	6.0 Lakhs	National
Total number of grants received		10	133.1 Lakhs	National

18. **Inter-institutional collaborative projects and associated grants received**

a) **National collaborations:** Biotechnology program established mutual collaborations with the followings;

- 1) Rajendra Memorial Research Institute of Medical Sciences (RMRIMS), Patna
- 2) Central Council for Research in Unani Medicine (CCRUM), Patna
- 3) Indian Council of Agricultural Research (ICAR-Patna)
- 4) Mahavir Cancer Sansthan, Patna
- 5) All India Institute of Medical Sciences (AIIMS), Patna
- 6) Jawaharlal Nehru University (JNU), New Delhi
- 7) All India Institute of Medical Sciences (AIIMS), New Delhi
- 8) Central Potato Research Institute (CPRI), Patna
- 9) Rajendra Agricultural University (RAU), Patna
- 10) National Centre for Biological Sciences (NCBS), Bangalore
- 11) Indian Institute of Science (IISc), Bangalore
- 12) Banaras Hindu University (BHU), Varanasi



- 13) Aligarh Muslim University (AMU), Aligarh
- 14) Bhabha Atomic Research Centre (BARC), Mumbai
- 15) Jamia Hamdard University, New-Delhi
- 16) NIPER, Hajipur

b) International collaborations: Biotechnology programme developed mutual collaborations with the followings ;

- 1) Max Planck Institute for Chemical Ecology (MPI-CE), Jena, Germany
- 2) Swedish University of Agricultural Sciences, Alnarp, Sweden
- 3) Penn State College of Medicine, USA

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. None

20. Research facility / centre with

- state recognition
- national recognition
- international recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies: None

22. Publications:

Dr. Rizwanul Haque:- 10

1. Ashraf, G. M., Perveen, A., Zaidi, S. K., Tabrez, S., Shakil, S., Ahmad, A., **Rizwanul Haque.**, Ahsan, J., Kamal, M. A., Banu, N. Integrating qualitative and quantitative tools for the detection and identification of lectins in major human diseases. (2015) *Protein and Peptide Letters*, Accepted (In press). Impact Factor: 1.086. ISSN: 1875-5305 (Online), ISSN: 0929-8665 (Print).
2. Nadra Sadaf, Jawaid Ahsan, Saif Ahmad, **Rizwanul Haque.** Mitochondria: A Key Player in Stem Cell Fate. *Cell Biol.* 2015; 3(2-1): 31-37. ISSN: 2330-0175 (Print); ISSN: 2330-0183 (Online). Impact Factor: 9.8
3. Saif Ahmad, Nehal M. Elsherbiny, **Rizwanul Haque**, M Badruzzaman Khan, Tauheed Ishrat, Zahoor A. Shah, Mohammad M. Khan, Mehboob Ali, Arshad Jamal, Deepshikha Pande Katare, Gregory I. Liou, Kanchan Bhatia. Sesamin attenuates neurotoxicity in mouse model of ischemic brain stroke. *Neurotoxicology.* 2014: 45: 100-10. Impact Factor: 3.38, Online ISSN: 0161-813X.
4. Mikerov AN, Phelps DS, Gan X, Umstead TM, **Rizwanul Haque**, Wang G, Floros J. Effect of ozone exposure and infection on bronchoalveolar lavage: Sex differences in response patterns. *Toxicol Lett.* 2014 Apr 21. pii: S0378-4274(14)00167-2, Impact Factor: 3.355, Online ISSN: 0378-4274.



5. Mehboob Ali, Sagheer Ahmed Khan, Peter S Chang, **Rizwanul Haque** Kanchan Bhatia and Saif Ahmad. Habb-e-Asgand, polyherbal Unani formulation protects liver and antioxidative enzymes against paracetamol induced hepatotoxicity. *Pharm. Biol.* 2013, Impact Factor: 1.206, Online ISSN: 1744-5116,
6. Lei F, Song J, **Rizwanul Haque**, Haque M, Xiong X, Fang D, Croft M, Song J. Regulation of A1 by OX40 Contributes to CD8(+) T Cell Survival and Anti-Tumor Activity. *PLoS One.* 2013 Aug 1;8(8): Impact Factor: 5. eISSN-1932-6203.
7. Lei F, Song J, **Rizwanul Haque**, Xiong X, Fang D, Wu Y, Lens SM, Croft M, Song J. Transgenic expression of survivin compensates for OX40-deficiency in driving Th2 development and allergic inflammation. *Eur J Immunol.* 2013 Jul;43(7):1914-24. Impact Factor: 4.97, Online ISSN: 1521-4141.
8. **Rizwanul Haque**, Fengyang Lei Baohua Zhao Yuzhang Wu and Jianxun Song. Programming of regulatory T cells from pluripotent stem cells and prevention of autoimmunity". *J Immunology.* 2012 Aug 1;189(3):1228-36. Impact Factor: 5.745, ISSN 0022-1767.
9. Fengyang Lei, **Rizwanul Haque**, Xiaofang Xiong, and Jianxun Song. Directed Differentiation of Induced Pluripotent Stem Cells towards T Lymphocytes. *J. Vis. Exp.* (63), e3986, DOI: 10.3791/3986 (2012). ISSN: 1940-087X. Impact Factor: 1.325.
10. Saif Ahmad, M Badruzzaman Khan, Hoda MN, Kanchan Bhatia, **Rizwanul Haque**, Inayat Salim Fazili, Arshad Jamal, Jafar Salamat Khan, Deepshikha Pande Katare. (2011). "Neuroprotective Effect of Sesame Seed Oil in 6-Hydroxydopamine Induced Neurotoxicity in Mice Model: Cellular, Biochemical and Neurochemical Evidence. *Neurochem. Res.* 2012 Mar;37(3):516-26. Impact Factor: 2.125, ISSN: 1573-6903.

Dr. Antresh Kumar: - 02

1. Rakesh Kumar, Rajesh D. Anandjiwala, **Antresh Kumar** (2015) Thermal and mechanical properties of mandelic acid-incorporated soy protein films. *J. Them. Ana. Cal.* DOI 10.1007/s10973-015-5035-9. (Impact Factor: **2.0**)
2. Ajeet Mandal, **Antresh Kumar**, Ashutosh Singh, Andrew M. Lynn, Khyati Kapoor and Rajendra Prasad (2012) A key structural domain of the *Candida albicans* Mdr1 protein. *Biochem. J.* **445**; 313–322. (Impact Factor: **5.0**)

Dr. Nitish Kumar: - 14

1. Mishra SK, Suman P, Sharma PK, Kumar N, Prakash K (2015) Human interferon regulatory factor-2 (IRF-2): chimeric protein and expression analysis. *Int. J. Biol., Pharm. Al. Sc.* 4: 5990-6002. Impact Factor: 3.88
2. Gandhi VP, Priya Anshu, Priya Suman, Daiya V, Keshari J, Prakash K, Jha AK, Kumar K, **Kumar N*** (2015) *Isolation and Molecular Characterization of Bacteria to Heavy Metals Isolated from Soil Samples of Bokaro Coal Mines, India. Pollution. I:* 287-295.
3. Desai P, Gajera B, Mankad M, Shah S, Patel A, Patil G, Narayanan S, **Kumar N*** (2015) Comparative assessment of genetic diversity among Indian bamboo



- genotypes using RAPD and ISSR markers. *Mol. Biol. Rep.* 42: 1265-1273. Impact Factor: 2
4. Sandal I, Koul R, Saini U, Kaur D, Mehta M, Kumar N, Ahuja PS, Bhattacharya A (2015) Development and Evaluation of transgenic tea plants developed from leaf explants by the biolistic gun method. *P. Cell Tiss. Org. Cul.* **In Press**
 5. Kumar N, Singh AS, Kumari S, Reddy MP (2015) Biotechnological approaches for the genetic improvement of *Jatropha curcas* L.: a biodiesel plant. *Ind. Cro. Prod.* 76:817-828. Impact Factor: 2.8
 6. Singh AS, Kumari S, Modi AR, Gajera BB, Narayanan S, **Kumar N*** (2015) Role of Conventional and Biotechnological Approaches in Genetic Improvement of Castor (*Ricinus communis* L.). *Ind. Cro. Prod.* 74: 55-62. Impact Factor: 2.8
 7. Bhattacharya A , Saini U, Joshi R, Kaur D, Pal AK, **Kumar N**, Gulati A, Mohanpuria P, Kumar S, Kumar S, Ahuja PS (2014) *Osmotin* expressing transgenic tea plants have improved stress tolerance and quality parameters. *Trans. Res.* 23:211-23. Impact Factor: 2.467
 8. Kumar A, Prakash K, Sinha RK, **Kumar N*** (2013) In vitro plant propagation of *Catharanthus roseus* and assessment of genetic fidelity of micropropagated plants by RAPD marker assay. *App.Biochem.Biotech.* 169: 894-900. Impact Factor: 1.239
 9. **Kumar N***, Bhattacharya A, Gulati A (2013) L-glutamine and L-glutamic acid facilitate the establishment of cell-cell contact between *Agrobacterium* and recalcitrant leaves of important tea cultivars. *App.Biochem.Biotech.*70:1649-64. Impact Factor: 1.239
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 11. **Kumar N***, Reddy MP (2012) Thidiazuron (TDZ) induced plant regeneration from cotyledonary petiole explants of elite genotypes of *Jatropha curcas*: A candidate biodiesel plant. *Ind. Crop. Prod.* 39: 62-68 Impact Factor: 2.837
 12. Sharma S, **Kumar N**, Reddy MP (2011) Regeneration in *Jatropha curcas*-Factors affecting the efficiency of in vitro regeneration. *Ind. Crop. Prod.* 34: 943-951. Impact Factor: 2.837
 13. **Kumar N***, Vijayanand KG, Reddy MP (2011). Plant regeneration in non-toxic *Jatropha curcas* - impacts of plant growth regulators, source and type of explants. *J. P. Biochem. Biotech.* Vol. 20: 125-133. Impact Factor: 1.09
 14. **Kumar N***, Vijayanand KG, Reddy MP (2011) In vitro regeneration from petiole explants of non-toxic *Jatropha curcas*. *Ind. Crop. Prod.*. Vol. 33: 146-151. Impact Factor: 2.837

Dr. Krishna Prakash: - 07

1. Gandhi, V.P., Priya, A. , Priya, S., Daiya, V. , Kesari, J. , Prakash, K. , Kumar Jha, Kumar, K. and Kumar, N.(2015) *Isolation and molecular characterization of bacteria to heavy metals isolated from soil samples in Bokaro Coal Mines, India.* *Pollution*,1(3): 287-295, Impact Factor: 1.8



2. **Prakash K**, Kumar P, Mukherjee S, Rath PC. Chimeric murine interferon regulatory factor-2 (IRF-2) binds to IRF-E (IRF binding element), VRE β (virus response element) but not to VRE α 1. *Cell Biochem Funct.* 2014 Dec;32(8):630-6. doi: 10.1002/cbf.3050. Epub 2014 Sep 23. PubMed PMID: 25251598. Impact Factor: 2
3. Ajay Kumar, **Krishna Prakash**, Rajesh Kumar Sinha, Nitish Kumar. In Vitro Plant Propagation of Catharanthus roseus and Assessment of Genetic Fidelity of Micropropagated Plants by RAPD Marker Assay. *Appl. Biochem. Biotech.* 01/2013; DOI: 10.1007/s12010-012-0010-4. Impact Factor: 1.23
4. Gupta N, Chakrabarti K, **Prakash K**, Wadhwa N, Gupta T, Gupta SK. Immunogenicity and contraceptive efficacy of Escherichia coli-expressed recombinant porcine zona pellucida proteins. *Am. J. Reprod Immunol.* 2013 Aug;70(2):139-52. doi: 10.1111/aji.12095. Epub 2013 Feb 27. PubMed PMID: 23444974. Impact Factor: 2.67
5. **Krishna Prakash**, Pramod C. Rath. Chimeric Oncogenic Interferon Regulatory Factor-2 (IRF-2): Degradation Products Are Biologically Active. *App. J. Mol. Biol.* Vol.2 No.4, October 2012. Impact Factor: 4.3
6. Neha Gupta, Kausiki Chakrabarti, **Krishna Prakash** Tripti Gupta and Satish Kumar Gupta (2013) Immunogenicity and contraceptive efficacy of *E. coli*-expressed recombinant porcine zona pellucida proteins. *American J. Reproductive Immunology.* 70(2):139-52. doi: 10.1111/aji.12095. Epub 2013 Feb 27. Impact Factor: 2.67
7. Santosh Kumar Mishra, Nitish Kumar, Pushpa Kumari Sharma, Prabhat Suman, and **Krishna Prakash***. Human Interferon Regulatory Factor-2 (IRF-2): Chimeric protein and Expression analysis. *IJBPAS*, September, 2015, 4(9): 5990-6002. Impact Factor: 3.88.

Dr. Jawaid Ahsan: - 04

1. Ashraf G.M., Perveen A., Zaidi S.K., Tabrez S., Shakil S., Ahmad A., Haque R., **Ahsan J.**, Kamal M.A. and Banu N. (2015). "Integrating Qualitative and Quantitative Tools for the Detection and Identification of Lectins in Major Human Diseases". *Protein & Peptide Letters.* 22(11):954-62. PMID: 26419242 (Impact Factor: 1.124) (Peer-Reviewed)
2. Sadaf N., **Ahsan J.**, Ahmad S. and Haque R. (2015). "Mitochondria: A Key Player in Stem Cell Fate". *Cell Biology. Special Issue: Mitochondria: Implications in Human Health and Diseases.* Vol. 3, No. 2-1, 2015, pp. 31-37. ISSN Print: 2330-0175, ISSN Online: 2330-0183 (Peer-Reviewed)
3. Knaden M., Strutz A., **Ahsan J.**, Sachse S. and Hansson B.S. (2012). "Spatial Representation of Odorant Valence in an Insect Brain". *Cell Reports* 1, 1-8, April 19, 2012. PMID: 22832228 (Impact Factor- 8.4) (Peer-Reviewed)
4. **Ahsan J.**, Jain S.K. and Siddiqi O. (2012). "Behavioral characterization of P-element insertion lines of *Drosophila melanogaster*". *Dros. Inf. Serv.* Vol. 95



Dr. Lokendra Kumar Sharma:- 10

1. Zhang C, Huang VH, Simon M, **Sharma LK**, Fan W, Haas R, Wallace DC, Bai Y, Huang T. Heteroplasmic Mutations of the Mitochondrial Genome Cause Paradoxical Effects on Mitochondrial Functions. *FASEB J.* 2012 Dec;26(12):4914-24. (PMID:22925728). (**Impact Factor: 5.704**)
2. **Sharma LK**, Milstein AC, Bai Y. Tumorigenesis: A Mitochondrial Story *J Carcinogene Mutagene* 2012, 3:2 (In press). (**Impact Factor: 3.44**)
3. Hongzhi Li*, **Lokendra K Sharma***, Youfen Li*, Peiqing Hu, Abimbola J Idowu, Danhui Liu, Jianxin Lu, Yidong Bai,. Comparative bioenergetic study of neuronal and muscle mitochondria during aging. (* **Joint first authors**) *Free Radic Biol Med.* 2013 Apr 30;63C:30-40. (**Impact Factor 5.98**).
4. Tiwari M, Sharma LK, Vanegas D, Callaway DA, Bai Y, Lechleiter JD, Herman B. A Non Apoptotic Role For Caspase-2: Modulation of Autophagy. *Autophagy.* 2014 Jun;10(6):1054-70. doi: 10.4161/auto.28528. PMID:24879153. (**Impact Factor: 12.04**)
5. Edmunds LR, **Sharma L**, Kang A, Lu J, Vockley J, Basu S, Uppala R, Goetzman ES, Beck ME, Scott D, Prochownik EV. c-Myc programs fatty acid metabolism and dictates acetyl CoA abundance and fate. *J Biol Chem.* 2014 Jul 22. pii: jbc.M114.580662. [Epub ahead of print] PMID: 25053415. (**Impact Factor: 4.6**).
6. **Lokendra Kumar Sharma***, Meenakshi Tiwari, Santosh Kumar Mishra. Mitochondrial Alteration: A Major Player in Carcinogenesis. *Cell Biology Special Issue: Mitochondria: Implications in Human Health and Diseases.* 2015; 3(2-1): 8-16. Published online February 10, 2015 (<http://www.sciencepublishinggroup.com/j/cb>). (*Corresponding Author)
7. Meenakshi Tiwari, **Lokendra K. Sharma**, Ajit K Saxena, Madan M. Godbole. Interaction Between Mitochondria and Caspase: Apoptotic and Non-Apoptotic Roles. *Cell Biology Special Issue: Mitochondria: Implications in Human Health and Diseases* 2015; 3(2-1): 22-30. Published online March 18, 2015 (<http://www.sciencepublishinggroup.com/j/cb>)
8. Wang H, **Sharma L**, Lu J, Finch P, Fletcher S, Prochownik EV. Structurally diverse c-Myc inhibitors share a common mechanism of action involving ATP depletion. *Oncotarget.* 2015 May 30. [Epub ahead of print] PMID: 26036281 (**Impact Factor- 6.63**).
9. Edmunds LR, **Sharma L**, Wang H, Kang A, d'Souza S, Lu J, McLaughlin M, Dolezal JM, Gao X, Weintraub ST, Ding Y, Zeng X, Yates N, Prochownik EV. c-Myc and AMPK Control Cellular Energy Levels by Cooperatively Regulating Mitochondrial Structure and Function. *PLoS One.* 2015 Jul 31;10(7):e0134049. doi: 10.1371/journal.pone.0134049. eCollection 2015. (**Impact factor: 3.234**)
10. Mishra MK, Chaturvedi P, Singh R, Singh G, **Sharma LK**, Pandey V, Kumari N, Misra P. Overexpression of WsSGTL1 Gene of *Withania somnifera* Enhances Salt Tolerance, Heat Tolerance and Cold Acclimation Ability in Transgenic Arabidopsis Plants. *PLoS One.* 2013 Apr 30;8(4):e63064. doi: 10.1371/journal.pone.0063064. Print 2013. (**Impact Factor: 3.73**)



Dr. Rizwanul Haque (Book Chapters):

1. **Rizwanul Haque**, Dylan Lei FY and Jianxun Song. Stem Cell-Based Cellular Therapy in Rheumatoid Arthritis. Autoimmune Diseases".
<http://dx.doi.org/10.5772/47804>, ISBN 980-953-307-109-6.
2. Fengyang Lei, **Rizwanul Haque**, Xiaofang Xiong and Jianxun Song. Generation of Antigen-Specific T lymphocytes from Induced Pluripotent Stem Cells for Adoptive Immunotherapy, Stem Cells and Cancer Stem Cells, Volume 10, 2013, pp 105-121. ISBN: 978-94-007-6261-9, Springer.
3. Lei F, Haque R, Xiong X, Song J. Modulation of Autoimmune Diseases by iPS Cells. Methods Mol Biol. 2014;1213:365-77. doi: 10.1007/978-1-4939-1453-1_30. ISSN 1064-3745

Dr. Nitish Kumar (Book Chapters) :

1. **Kumar N**, Reddy MP (2013) *Jatropha* tissue culture: A critical review on present scenario and future prospects. In “*Jatropha, Challenges for a New Energy Crop: Vol 2: Genetic Improvement and Biotechnology*” edited by Bir Bahadur., Sujatha M., Nicolas Carels., pp: 513-523, (Springer Publisher).
2. **Kumar N**, Reddy MP, Sujatha M (2013) Genetic Transformation of *Jatropha curcas*: Current status and future prospects. In *Jatropha, Challenges for a New Energy Crop: Vol 2: Genetic Improvement and Biotechnology*” edited by Bir Bahadur., Sujatha M., Nicolas Carels., pp: 535-546, (Springer Publisher).
3. Modi A, **Kumar N** and Subhash N (2015) Transcript quantification of genes involved in steviol glycoside biosynthesis in *Stevia rebaudiana* Bertoni by Real Time Polymerase Chain Reaction (RT- PCR). In “*Method in Molecular Biology*” edited by Mohan Jain., Springer Publisher (In Press)
4. **Kumar N**, Modi A, Patil G, Singh AS, and Subhash N (2015) Exploitation of liquid medium for enhanced biomass production in micropropagation of *Stevia rebaudiana* Bertoni: A progress towards commercialization). In “*Method in Molecular Biology*” edited by Mohan Jain., Springer Publisher (In Press)

Dr. Lokendra Kumar Sharma (Book Chapters) :

1. Meenakshi Tiwari, **Lokendra K. Sharma**, Madan M. Godbole. Enhancement of cell death in high grade glioma cells: role of n-(4-hydroxyphenyl) retinamide-induced autophagy Four-volume series discussing AUTOPHAGY: Cancer, Other Pathologies, Inflammation, Immunity, and Infection. 2014, Vol. 1, Molecular Mechanism, Chapter 16.

* **Number of papers published in peer reviewed journals (national / international):**
Total : 47

* **Edited Books:-** Nil

* **Books with ISBN with details of publishers:-** Stated above



- * **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :- Nil**
- * **Citation Index – range / average :-**
Dr. Rizwanul Haque : 1458
- * **SNIP :- Nil**
- * **SJR :- Nil**
- * **Impact Factor – range / average:- Total : 289.179**
- * **h-index: - Total 25**

23. Details of patents and income generated:

Patent filed of Dr. Rizwanul Haque :

1. Establishment of a Murine Stromal Cell Line Expressing Two Notch Ligands and MHC-II protein. Pennsylvania State University Invention Disclosure Number: 2012-3908. Jianxun Song, Fengyang Lei, and Rizwanul Haque.

Income generated: Nil

24. Areas of consultancy and income generated : None

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

International:-

Sl. No.	Faculty Name	Duration	Visited Laboratory
1.	Dr. Rizwanul Haque	2003-12	<i>Post-Doctoral Research Scientist, Pennsylvania State University College of Medicine, Hershey, Pennsylvania, USA.</i>
2.	Dr. Lokendra Kumar Sharma	2007-13	Post-Doctoral Fellow, The University of Texas Health Science Center at San Antonio (UTHSCSA) Texas United States
		2013-14	Post-Doctoral Associate Children's Hospital of Pittsburgh of UPMC Pittsburgh, United States
3.	Dr. Antresh Kumar	2008-09	Pre-Doctoral Fellow, National Cancer Institute, National Institute of Health, Bethesda, USA
4.	Dr. Jawaid Ahsan	2010-11	Linnaeus Postdoctoral Fellow in the Department of Neuroethology, Max-Planck Institute for Chemical Ecology, Jena, Germany and SLU, Alnarp, Sweden



National:-

Sl. No.	Faculty Name	Duration	Visited Laboratory
1.	Dr. Rizwanul Haque	1998-99	<i>Research Fellow, Vallabha Bhai Patel Chest Institute, New Delhi</i>
2.	Dr. Krishna Prakash	2008-09	<i>Research Associate, Malaria Group, International Centre for Genetic Engineering and Biotechnology, New Delhi</i>
		2010	<i>Research Associate, National Institute of Immunology, New Delhi</i>
3.	Dr. Antresh Kumar	2003-04	Research Interns, Institute of Himalayan Bioresearch Technology (IHBT)-CSIR, Palampur, H.P.
		2010-11	Lecturer, Jaypee University of Information Technology (JUIT), Wazirpur, H.P.
4.	Dr. Nitish Kumar	2004	Research Intern, CSIR-CIMAP, Lucknow, UP, India
		2009-10	Research Associate, Anand Agricultural University, Anand, Gujarat, India

26. Faculty serving in

- a) **National committees** b) **International committees** c) **Editorial Boards** any other (please specify) :-

Dr. Rizwanul Haque's professional membership of Scientific organization:-

(i)	Life member of Indian Immunology Society.
(ii)	Member of inflammation Research Association.
(iii)	Member of society of Leukocytes Biology.
(iv)	Member of European Federation of Biotechnology
(v)	Member of American Lung association.
(vi)	Ex-member of American Association of Immunology.
(vii)	Ex-member of association of Scientists of Indian origin in America, Inc.
(viii)	Ex-member of Human Proteome Organization
(ix)	Ex-member of International Society for Biological Therapy for Cancer

Dr. Lokendra Kumar Sharma's membership:-

(i)	2006	Member, Indian Society of Cell Biology.
(ii)	2009-2013	Member, Postdoctoral committee at Department of Cellular & Structural Biology, UTHSC San Antonio, United States.
(iii)	2010-present	Member, United Mitochondrial Disease



		Foundation (UMDF).
(iv)	2012	Member, Search Committee for the Director, Office of Postdoctoral Affairs, UTHSCSA.
(v)	2012-2013	Member, Employee Appreciation Award Committee, Department of Cellular & Structural Biology, UTHSC San Antonio, United States.
(vi)	2014	Permanent Invitee of CRDC, Central University of South Bihar, India
(vii)	2015	Member, Biosafety Committee, Central University of South Bihar, India
(viii)	2015	Member, Research Advisory Committee, Patna University, Bihar, India

Dr. Krishna Prakash

Advisory Editorial board member of **Journal of Biomedical Sciences (JBM)**, ISSN: 2161-2625).

Editorial Board membership/Reviewer:

Dr. Rizwanul Haque:-

(i)	Journal of Immunology and Vaccine Technology
Ad hoc Reviewer :	
(ii)	Journal of Neuroimmunology
(iii)	Journal of Life Sciences
(iv)	Journal of Diabetes and its Complications
(v)	Food and Chemical Toxicology
(vi)	Saudi Medical Journal
(vii)	African Journal of Microbiology Research,
(viii)	African Journal of Environmental Science & Technology
(xi)	Journal of Pharmacognosy & Phyotherapy
(x)	Journal of Diabetes and its Complications
(xi)	Mycotoxin Research

Dr. Jawaid Ahsan:-

(i)	In the Editorial Board of "Research and Reviews: A Journal of Neuroscience (RRJoNS)" of STM Journals.
(ii)	In the Editorial Board of International Journal 'Frontiers in Neuroscience'.
(iii)	In the Editorial Board of 'Evolutionary Psychology and Neuroscience', a specialty of the journal 'Frontiers in Neuroscience and Psychology'.
(iv)	Member of Society for Neuroscience (SFN)
(v)	Member of Molecular and Cellular Cognition Society (MCCS)
(vi)	Member of the Central University of South Bihar-Institutional



	Biosafety Committee (CUSB-IBSC).
(vii)	Member of the University Website and Internet Committee of Central University of South Bihar, Patna.
(viii)	Past Member of the Editorial Team for University Newsletter of Central University of South Bihar, Patna.

Dr. Lokendra Kumar Sharma:-

(i)	2011-present	Ad-hoc scientific reviewer, BBA: Molecular Basis of Disease, Biochemistry. PlosOne
(ii)	2011-present	Review Editor, Frontiers in Genetics of Aging.
(iii)	2013-present	Editorial Board Member of American Journal of Biomedical Research (AJBR)
(iv)	2013-present	Editorial Board Member of Cancer Research Journal
(v)	2014-Present	Editorial Board Member of Trends Journal of Sciences Research TJSR)
(vi)	2014-Present	Peer Reviewer of European Journal of Molecular Biology (EJMB)
(vii)	2014-Present	Lead guest Editor of Cell Biology Journal and hosting a special issue on Mitochondria

Dr. Krishna Prakash

(i)	Reviewer of Pharmaceutical Biology (ISSN: 1388-0209 (print), 1744-5116 (electronic)
(ii)	Reviewer of Molecular Biology Reports (Springer; Impact factor: 1.875), ISSN: 0301-4851 (print version), ISSN: 1573-4978 (electronic version).
(iii)	Reviewer of American Journal of Molecular Biology (ISSN Print: 2161-6620 ISSN Online: 2161-6663)
(iv)	Reviewer of Journal of Biological Chemistry .

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). :-

Dr. Rizwanul Haque :-

a. Invited Speaker:

- Plenary award winning lecture on National symposium on Genetics and Stem cell, AIIMS, Patna, 2014.
- Delivered lecture for CME programme in order to promote immunology subject at Cellular Immunity, Cytokines, Chemokines and Inflammatory response, RMRIMS, Patna, 2013
- Invited talk on Stem cells derived regulatory T cells for arthritis prevention



Department of Microbiology & Immunology, Pennsylvania State University College of Medicine, Hershey PA, August 30, 2012.

- Invited talk on Impact of stem cells derived regulatory T cells for arthritis prevention, Department of Rheumatology, Pennsylvania State University College of Medicine, Hershey PA, March 8, 2011.
- Invited talk on Programming of induced pluripotent stem cells into regulatory T cells for arthritis prevention, Department of Microbiology & Immunology, Pennsylvania State University College of Medicine, Hershey PA, February 3, 2011.

b. Oral Presentation :

- **Rizwanul Haque**, Dylan Lei FY, and Jianxun Song. Programming of induced pluripotent cells into regulatory T cells for Arthritis prevention”. Accepted abstract for oral presentation in 98th Annual Meeting of IMMUNOLOGY 2011, May 13-17, San Francisco. Abstract Number: 1063661.
- Fengyang Lei, **Rizwanul Haque**, and Jianxun Song. “In vivo programming induced pluripotent stem cells into antigen-specific T-lymphocytes and Tumor protection”. Accepted abstract for oral presentation in 98th Annual Meeting of IMMUNOLOGY 2011, San Francisco, May 13-17.
- Fengyang Lei, **Rizwanul Haque**, and Jianxun Song. “Lymphopoiesis of Antigen-Specific CTLs from induced pluripotent stem cells. Oral presentation in Graduate Student Research Forum, March 3-4, 2011.

c. Poster presentation :

- **Rizwanul Haque**, Dylan Lei FY, and Jianxun Song. Programming of induced pluripotent cells into regulatory T cells for Arthritis prevention”, 98th Annual Meeting of Immunology 2011, San Francisco, May 13-17. Abstract Number: 1063661.
- Dylan Lei, **Rizwanul Haque**, and Jianxun Song. “In vivo programming induced pluripotent stem cells into antigen-specific T-lymphocytes and Tumor protection”, 98th Annual Meeting of Immunology 2011, May 13-17, San Francisco.
- Anatoly N. Mikerov, Todd M. Umstead, Xiaozhuang Gan, Rizwan Haque, Sanmei Hu, Guirong Wang, David S. Phelps, and Joanna Floros. Effect of ozone exposure and Klebsiella pneumoniae infection on lung host responses in male and female mice. Denver CO, May 13-18, ATS 2011. Abstract #16291).



Dr. Antresh Kumar :-

a. Invited Speaker :

- Functional analysis of H-loop residues of Cdr1p, an ABC transporter of human fungal pathogen *Candida albicans*., FINSysB Conference Candida Infection Biology – fungal armoury, battlefields and host defences 10-14 October, 2011 Acquafredda di Maratea, ITALY.

b. Poster Presentation :

- Ajeet Mandal, **Antresh Kumar**, Ashutosh Singh and Rajendra Prasad (2011) *The central large cytoplasmic loop renders functional native confirmation to camdr1p of Candida albicans for multidrug resistance activity*. VII Annual NIH Graduate student Research Symposium: the faces of tomorrow's science; January 12th 2011.
- Given poster presentation with Krishnedu Bera, Arvind Kumar, **Antresh Kumar** and Durg Vijay Singh on the topic of *Structural and Functional elucidation of TMD0 of Ecd L, an ABC transporter: In silico study*, National conference on Bioinformatics Panorama in Agriculture and Health (NCBPAH), 5th- 6th October 2015, Department of Computational Biology and Bioinformatics, Jacob School of Biotechnology and Bioengineering, Sam Higginbottom Institute of Agriculture, Technology and Sciences, Allahabad.

c. Conferences/workshop attended

- Participated in three weeks training workshop on “Molecular Virological techniques for Dengue and Chikungunya” sponsored by Department of Health Research (Govt. of India) held at National Institute of Virology, Pune from 22nd June 2015.
- Participated in the 28 days Orientation Program training at Academic Staff College, Patna University, Patna from 8th October 2014 to 4th November 2014
- Attended CUB Guest lecture series on “Will it be possible to eradicate the diseases TB caused by Mycobacterium tuberculosis? on 23 April, 2013.
- Attended 6th Foundation day lecture on “Peptide bond- the Forth fluorescent molecule of the Protein” at NIPER, Haripur, 26th November 2013.
- Attended MHRD sponsored workshop on “National Mission on Education through Information and Communication Technology (NMEICT)” conducted by NIT, Patna on 06- 07th June 2013.

Dr. Nitish Kumar :-

- **Kumar N.**, Plant regeneration of non-toxic *Jatropha curcas*- impacts of plant growth regulators, source and type of explants. National Seminar on Recent Trends in Life Sciences, Patna University, Patna, (Oral Presentation), 30th May 2012.



- **Kumar N.**, 5th Science Conclave, IIT Allahabad, (Participation), December 8-14.
- Attended training course on application of nanotechnology in Agriculture organized under world Bank Funded NAIP-ICAR project at Central Arid zone Research Institute, Jodhpur from March 10 to 19, 2014.

Dr. Krishna Prakash :-

- Delivered talk entitled on “Chimeric Human IRF-2: Molecular cloning and expression analysis” at 6th international conference on Stem cells and cancer (ICSCC-2015), 2-5 October 2015 Pune, India , organized by ICSCCB, Pune.
- Delivered a seminar entitled on “Expression and DNA binding activity of chimeric murine Interferon Regulatory Factor-2 (IRF-2)” under Centre for Biological Seminar series at Central University of Bihar, Patna on 25th August 2014.
- Attended workshop on “1-week hands-on Human /cancer cell culture techniques and MTT assay” organized by International center for Stem cells, cancer and biotechnology (ICSCCB), Pune, during 1st June to 7th June 2014.

Dr. Jawaid Ahsan :-

a. Conference/Workshop attended :-

- Attended ‘Awareness Programme on Intellectual Property Rights’ (For Educational and Academic Institutions), organized by The Controller General of Patents, Designs and Trade Marks, Ministry of Commerce & Industry, Govt. of India together with Department of Education, Govt. of Bihar and Confederation of Indian Industry (CII), on 16th October 2014 at Adhiveshan Bhawan, in Patna.
- Attended workshop on UGC’s Academic and Administrative Reforms, 2009 (PG & Research) from 2nd to 3rd December 2011 in Hotel Patliputra Ashok, Patna.

Dr. Lokendra Kumar Sharma:-

a. Invited Speaker:

- **Sharma LK.** Mitochondrial complex I defects: Implications in tumorigenesis and mitochondrial diseases, Mitochondrial Meeting December 9, 2011. Organized by Barshop Institute of Longevity, UTHSCSA Texas United states.
- **Sharma LK.** Mitochondrial Complex I Dysfunction: Mechanism & Therapeutic Approaches in Neurodegenerative Mitochondrial Diseases, Cellular and Structural Biology Departmental Post-Doc/Researchers Summer Seminar Series.



July 24th 2012. The UT Health Science Center, San Antonio, Texas, United states.

- **Sharma LK.** Mitochondrial complex I: role in tumorigenesis and implications in mitochondrial diseases, Center for Mitochondrial and Epigenomic Medicine (CMEM) Children's Hospital of Philadelphia Research Institute, Philadelphia, PA, USA (Date: 21st Feb 2013).
- Sharma LK. Mitochondrial DNA Mutations in Cancer and Potential Therapeutic Approaches, National Conference on “Genetics and Stem Cell Research” Organized by Department of Pathology / Laboratory Medicine, All India Institute of Medical Sciences Patna, Bihar on 15.11.2014.

b. Oral Presentation

- **Sharma LK.** Mitophagy Activation: A therapeutic approach for neurodegenerative mitochondrial diseases, Twentieth Annual Summer Training Course in Experimental Aging Research at the Buck Institute for Research on Aging in Novato, California (USA) June 9th -14th 2012.
- **Sharma LK.** Role of Mitochondrial DNA Mutations and Dysfunction in Tumorigenesis, 5th International Conference on Stem Cells and Cancer (ICSCC-2014): Proliferation, Differentiation and Apoptosis, scheduled from Nov 08, 2014 to Nov 10, 2014 at New Delhi, Delhi, India.

c. Poster Presentation :

- **Sharma LK,** Tiwari M, Bai Y. Mitophagy Activation: A Therapeutic Approach for Neurodegenerative diseases, San Antonio Nathan Shock Center Conference on Aging. October 18 -21, 2012. San Antonio Texas United States.
- Tiwari M, **Sharma LK,** Vanegas D, Bai Y, Herman B. Role of caspase-2 as an endogenous repressor of autophagy, San Antonio Nathan Shock Center Conference on Aging. October 18 -21, 2012. San Antonio Texas United States.

d. Abstract accepted

- Zhang C, Huang VH, Simon M, **Sharma LK,** Fan W, Haas R, Wallace DC, Bai Y, Huang T. Heteroplasmic mutations of the mitochondrial genome cause paradoxical effects on mitochondrial functions, Annual Clinical Genetics Meeting (ACMG) March 27-31, 2012 Charlotte, North Carolina United States. Abstract ID: A0373).
- **Sharma LK,** Fang H, Vartak R, Hu P, Bai Y. Mitochondrial Complex I Defects: Implications in Tumorigenesis, United Mitochondrial Diseases Foundation's (UMDF) *Mitochondrial Medicine Meeting, June 13-16, 2012.* Bethesda, MD, United States.
- Gao X, **Sharma LK,** Bai Y, Weintraub S. LC-MS Lipidomics Analysis of a Human Osteosarcoma Cybrid with a Mitochondrial Complex I defect, 61st



ASMS Conference on Mass Spectrometry and Allied Topics 2013 Minneapolis, MN, United States.

- Shane L. Rea, Maruf Khan, Erin Munkácsy, **Lokendra Sharma**, Alex Bokov, Haley Beam, Yidong Bai and Robert J. Mishur. Direct regulation of cupins by the metabolic network in *C. elegans*, 3rd International Conference & Exhibition on Metabolomics & Systems Biology on March 24-26, 2014 Hilton San Antonio Airport, San Antonio, USA.
- Abstract accepted for Poster Presentation at 6th World Congress on Mitochondrial Targeting, Berlin Germany 28th-30th Oct 2015.

28. Student projects

- **percentage of students who have done in-house projects including inter-departmental projects : 100 %**
- **percentage of students doing projects in collaboration with other universities /□industry / institute :- 100% (2 months summer internship as a part of master program curriculum)**

29. Awards / recognitions received at the national and international level by

- **Faculty :**

Dr. Rizwanul Haque :

- Recipient of American Association of Immunologist Travel Grant for 98th Annual Meeting of IMMUNOLOGY 2011 for oral presentation, May 13-17, San Francisco, USA.

Dr. Antresh Kumar

- Research Grant as an Empowerment and Equity Opportunities for Excellence in Science (2013).
- Research Grant as Young Scientist by the DST, New Delhi (2012).
- Innovative research idea competition qualified at Asia level named International Genetically Engineered Machine (iGEM) competition held at Hong Kong, JAPAN, 5-7 October 2012.
- Research Fellowship as Research Associate (RA) by the CSIR, New Delhi (2011).
- Bursary award for attending and invited speaker in the Candida Infection Biology-fungal armoury, battlefields and host defences conference, Acquafredda di Maratea, Italy: 10-14 October 2011.
- Travel grant from both the CSIR and DST to attend Gordon Research Conference (GRC) on Multi-Drug Efflux Systems: From Molecular mechanisms to pharmacological modulation at Les Diablerets, Switzerland, June 12-17, 2011. (*Grant not availed*)



Dr. Nitish Kumar:-

- Fast-track Young Scientist from DST, Govt. of India (2014)

Dr. Lokendra Kumar Sharma :-

- Training Award to participate in the 20th Annual Summer Training Course in Experimental Aging Research, funded by National Institute of Aging (NIA), at the Buck Institute for Research on Aging in Novato, California (USA) June 9th -14th 2012.
- Travel award from the Burroughs Welcome Travel Scholarship to attend the Mitochondrial Medicine 2012 meeting at Bethesda, MD United States.
- Barbara H. Bowman Post-Doctoral Research Award-2012 (This award is given to an outstanding postdoctoral fellow for his excellence in research at The University of Texas Health Science Center at San Antonio (UTHSCSA) United States .
- Recipient of inaugural Susan L Naylor Award-2013 for Excellence in Postdoctoral Studies at C&S Biology at UTHSC San Antonio Center United States.
- Department of Science & Technology Govt. of India (DST) Fast Track Young Scientist Award- 2013.
- University Grants Commission- Faculty Recharge Program-2013 (UGC-FRP) as an UGC-Assistant Professor in Biological Sciences.
- Research grant as UGC-Startup-2015-2017.
- International Travel grant from SERB-DST to attend 6th world Congress in Berlin Germany 28th -30th Oct 2015.
- International Travel support from Centre for International Co-operation in Science (CICS) to attend 6th world Congress in Berlin Germany 28th -30th Oct 2015.

• **Doctoral / post-doctoral fellows:** - NIL

• **Students :-**

Sl. No.	Name of Students	Achievements
Academic Year : 2010-12		
1.	Abhishek Kumar	• GATE qualified
2.	Ajay Kumar	• GATE qualified, • PhD. Pursuing (JNU)
3.	Alka Raj	• GATE qualified
4.	Anshu Priya	• DST-JRF qualified • PhD. Pursuing (IIT, Patna)
5.	Archana	Working as Project JRF at Patna University
6.	Kunal Kumar	• GATE and ICAR-NET qualified, • PhD. Pursuing (Central University of Gujarat)



7.	Mukesh Kumar	Working as Technical Officer at IRL LAB, Patna
8.	Parvaiz Ahmad Shiekh	<ul style="list-style-type: none"> • GATE qualified, • DBT-JRF • CSIR-NET- JRF • Pursuing PhD (IIT, Kanpur)
9.	Pooja Maurya	<ul style="list-style-type: none"> • GATE qualified, DBT-JRF • Pursuing PhD (CSIR-CDRI)
10.	Raman Kumar Ravi	<ul style="list-style-type: none"> • GATE qualified, • PhD. Pursuing (Central University of Gujarat)
11.	Santosh Kr. Mishra	<ul style="list-style-type: none"> • CSIR-UGC-NET • PhD. Pursuing (Central University of Bihar)
12.	Shahid Hussain	<ul style="list-style-type: none"> • CSIR-NET- JRF • Pursuing PhD (CSIR-CDRI)
13.	Shweta Kumari	<ul style="list-style-type: none"> • GATE qualified, • DBT-JRF qualified • Pursuing PhD (ICMR-RMRIMS)
14.	Ujjawal Prakash	Working as Project Assistant at Central University of Jharkhand
15.	Vivek Daiya	• GATE qualified,
Academic Year : 2012-14		
16.	Paramjeet Prabhakar	• GATE (2013 & 2014)
17.	Pritam Kumar	• GATE
18.	Shikha	• GATE (2014)
19.	Vandana Kumari	• GATE (2014) & UGC-NET
Academic Year : 2013-15		
20.	Pushpa Kumari Sharma	<ul style="list-style-type: none"> • GATE (2015), • Indian National Science Academy , New Delhi
21.	Archana	Indian National Science Academy , New Delhi
22.	Ashrita	NET (June 2015)
Academic Year : 2014-16		
23.	Amrin Fatima	Indian National Science Academy , New Delhi
24.	Aradhya Tripathi	
25.	Divya Kumari	
26.	Reena Kumari	
27.	Renu Kumari	
28.	Satish Kumar	
29.	Tulika	



30.	Vivek Kumar	
31.	Zeba Rizvi	Centre for Cellular and Molecular Biology, Hyderabad

30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any. :- None

31. Code of ethics for research followed by the departments: Ethics for pursuing research in different biological science areas are being followed according to DBT-IBSC norms.

32. Student profile programme-wise:

Name of the Programme refer to question no. 4)	Session	Selected		Pass percentage	
		Male	Female	Male	Female
M.Sc. Biotechnology	2011-13	12	7	-	-
	2012-14	9	12	9	12
	2013-15	10	8	8	8
	2014-16	11	13	-	-
	2015-17	03	17	-	-
Integrated M.Phil-Ph.D. (Biotechnology)	Jan 14 onward	03	02	-	-

33. Diversity of students

Name of the Programme (refer to question no. 4)		% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.Sc. Biotechnology	2014	0	60	40	0
	2015	0	92	8	0
Integrated M.Phil-Ph.D. (Biotechnology)	2014	25	75	25	0
	2015	0	100	0	0

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.:

GATE: 13, NET- 02, JRF: - 05.

Sl. No.	Name of Students	Achievements
Academic Year : 2010-12		
1.	Abhishek Kumar	• GATE qualified



2.	Ajay Kumar	<ul style="list-style-type: none"> • GATE qualified, • PhD. Pursuing (JNU)
3.	Alka Raj	<ul style="list-style-type: none"> • GATE qualified
4.	Anshu Priya	<ul style="list-style-type: none"> • DST-JRF qualified • PhD. Pursuing (IIT, Patna)
5.	Archana	Working as Project JRF at Patna University
6.	Kunal Kumar	<ul style="list-style-type: none"> • GATE and ICAR-NET qualified, • PhD. Pursuing (Central University of Gujarat)
7.	Mukesh Kumar	Working as Technical Officer at IRL LAB, Patna
8.	Parvaiz Ahmad Shiekh	<ul style="list-style-type: none"> • GATE qualified, • DBT-JRF • CSIR-NET- JRF • Pursuing PhD (IIT, Kanpur)
9.	Pooja Maurya	<ul style="list-style-type: none"> • GATE qualified, DBT-JRF • Pursuing PhD (CSIR-CDRI)
10.	Raman Kumar Ravi	<ul style="list-style-type: none"> • GATE qualified, • PhD. Pursuing (Central University of Gujarat)
11.	Santosh Kr. Mishra	<ul style="list-style-type: none"> • CSIR-UGC-NET • PhD. Pursuing (Central University of Bihar)
12.	Shahid Hussain	<ul style="list-style-type: none"> • CSIR-NET- JRF • Pursuing PhD (CSIR-CDRI)
13.	Shweta Kumari	<ul style="list-style-type: none"> • GATE qualified, • DBT-JRF qualified • Pursuing PhD (ICMR-RMRIMS)
14.	Ujjawal Prakash	Working as Project Assistant at Central University of Jharkhand
15.	Vivek Daiya	<ul style="list-style-type: none"> • GATE qualified,
Academic Year : 2012-14		
16.	Paramjeet Prabhakar	<ul style="list-style-type: none"> • GATE (2013 & 2014)
17.	Pritam Kumar	<ul style="list-style-type: none"> • GATE
18.	Shikha	<ul style="list-style-type: none"> • GATE (2014)
19.	Vandana Kumari	<ul style="list-style-type: none"> • GATE (2014) & UGC-NET
Academic Year : 2013-15		
20.	Pushpa Kumari Sharma	<ul style="list-style-type: none"> • GATE (2015), • Indian National Science Academy , New Delhi
21.	Archana	Indian National Science Academy , New Delhi
22.	Ashrita	NET (June 2015)



23.	Aradhya Tripathi	Qualified INSA-Summer research fellowship 2015
24.	Divya Kumari	
25.	Reena Kumari	
26.	Renu Kumari	
27.	Satish Kumar	
28.	Tulika	
29.	Vivek Kumar	
30.	Zeba Rizvi	

35. Student progression

Student progression	Percentage against enrolled
UG to PG	Not Applicable
PG to M.Phil.	5 %
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Not Applicable
Employed	
<input type="checkbox"/> Campus selection	Nil
<input type="checkbox"/> Other than campus recruitment	Nil
Entrepreneurs	Nil

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	Nil
from other universities within the State	2 out of 6 i.e. 33 %
from universities from other States from	4 out of 6 i.e. 67 %
universities outside the country	Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : Nil

38. Present details of departmental infrastructural facilities with regard to



- a) **Library** :- No
- b) **Internet facilities for staff and students** : - Yes
- c) **Total number of class rooms** :- 1 (One)
- d) **Class rooms with ICT facility** :- Yes
- e) **Students' laboratories** :- Yes
- f) **Research laboratories** :- Yes

39. List of doctoral, post-doctoral students and Research Associates

- a) **from the host institution/university:-** (Doctoral student)

Mr. Santhosh Kumar Mishra	M.Phil
Ms. Nadra Sadaf	
Mr. Ghanshyam Kumar Satyapal	
Mr. Arvind Kumar	Ph.D.

- b) **from other institutions/universities :-** Nill

40. Number of post graduate students getting financial assistance from the university. CUSBET-2015 / Semester Topper

1. KASHFA SALIM, Session - 2015-17, MSC BIOTECHNOLOGY
2. ZEBA RIZVI, Session - 2014-16, MSC BIOTECHNOLOGY

**Merit cum Means Scholarship (MCM):
Third Semester (July – December 2014, Session 2013-15)**

Sl. No.	Name of Students	Category	Programme of Study	GPA in 2 nd Semester	Percentage of Scholarship	Amount to be paid
1	Anu Chourasia, CUB1303112002	OBC	M.Sc. Biotechnology -3 rd Sem	6.95	100	3500/-
2	Asha Sahu, CUB1303112004	OBC	M.Sc. Biotechnology -3 rd Sem	9.05	100	3500/-
3	Mukesh Kumar, CUB1303112012	OBC	M.Sc. Biotechnology -3 rd Sem	6.21	100	3500/-
4	Priti Priya, CUB1303112015	OBC	M.Sc. Biotechnology -3 rd Sem	7.89	100	3500/-



First Semester (July – December 2014, Session 2014-16)

SI. No.	Name of Students	Category	Enrolment No.	Programme of Study	Percentage of Scholarship	Amount to be paid
1	Neelam Kumari	OBC	CUB1403112010	M.Sc. Biotechnology - 1 st Sem	100	3500/-
2	Amrin Fatima	OBC	CUB1403112001	M.Sc. Biotechnology - 1 st Sem	100	3500/-
3	Shikha Rani	GEN	CUB1403112020	M.Sc. Biotechnology - 1 st Sem	100	3500/-
4	Renu Kumari	GEN	CUB1403112018	M.Sc. Biotechnology - 1 st Sem	100	3500/-

Fourth Semester (January – June 2015, Session 2013-15)

S No	Name of Students	Category	Programme of Study	GPA in 3 rd Semester	% of Scholarship	Remark
1	Asha Sahu 1303112004	OBC	Biotechnology-4 th Semester	8.85	100 %	Awarded
2	Prity Priya 1303112015	OBC	Biotechnology-4 th Semester	7.85	100 %	Awarded
3	Mukesh Kumar 1303112012	OBC	Biotechnology-4 th Semester	6.8	100 %	Awarded
4	Anu Chourasia 1303112002	OBC	Biotechnology-4 th Semester	7.5	100 %	Awarded

Second Semester (January – June 2015, Session 2014-16)

SI No	Name of Students	Category	Programme of Study	GPA in 1 st Semester	Percentage of Scholarship	Remark
1	Ajeet Kumar 1303112001	OBC	Biotechnology-2 nd Semester	6	100 %	Awarded
2	Rahul Gupta 1403112014	Gen	Biotechnology-2 nd Semester	6.67	100 %	Awarded
3	Gaurav Kumar 1403112007	Gen	Biotechnology-2 nd Semester	6.67	100 %	Awarded
4	Shikha Rani 1403112020	Gen	Biotechnology-2 nd Semester	7.5	100 %	Awarded
5	Zeba Rizvi 1403112025	Gen	Biotechnology-2 nd Semester	9	100 %	Awarded
6	Satish Kumar 1403112019	OBC	Biotechnology-2 nd Semester	6	100 %	Awarded
7	Neelam Kumari	OBC	Biotechnology-	8	100 %	Awarded



	1403112010		2 nd Semester			
8	Renu Kumari 1403112018	Gen	Biotechnology- 2 nd Semester	7.5	100 %	Awarded
9	Neda Sonobar 1403112009	OBC	Biotechnology- 2 nd Semester	7.33	100 %	Awarded

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. :- Yes, The new programme was started after critical evaluation by the Board of Study (BoS) committee further approved by Academic Council (AC).

42. Does the department/Centre (CBS) obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? :-

Centre welcomed feedback from different faculty members for curriculum development as well as teaching learning evaluation. The information provided by faculty member are discussed during the Board of Study (BoS) meeting and incorporate valuable suggestion or points for better shaping up curriculum of the programme.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

At the end of each semester, students fairly evaluate the teaching-learning ability of the respective course instructor who taught a particular subject.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

We warmly welcome viable suggestions put forward by alumni and try to implement at centre level.

43. List the distinguished alumni of the department (maximum 10).

The students passing out from Masters Programme are placed in many reputed organizations and institutes. Our placement record is remarkable and the students are performing well wherever they are placed.

Here is a list of students with their performances and placed in various places –

Sl. No.	Name of the Student	Achievements/Placements
1.	Ajay Kumar	GATE qualified, Pursuing PhD (JNU)
2.	Anshu Priya	DST-JRF Pursuing PhD (IIT, Patna)
3.	Kunal Kumar	GATE and ICAR-NET qualified,



		Pursuing PhD (Central University of Gujarat)
4.	Parvaiz Ahmad Shiekh	GATE qualified, DBT-JRF CSIR-NET- JRF Pursuing PhD (IIT, Kanpur)
5.	Pooja Maurya	GATE qualified, DBT-JRF Pursuing PhD (CSIR-CDRI)
6.	Raman Kumar Ravi	GATE qualified, Pursuing PhD (Central University of Gujarat)
7.	Santosh Kumar Mishra	CSIR-UGC-NET, Pursuing PhD, Central University of South Bihar
8.	Shahid Hussain	CSIR-NET- JRF Pursuing PhD (CSIR-CDRI)
9.	Shweta Kumari	GATE qualified, DBT-JRF Pursuing PhD (ICMR-RMRIMS)
10.	Vikram Pal Gandhi	Pursuing PhD (Central University of Jharkhand)

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. : Nil
45. List the teaching methods adopted by the faculty for different programmes.

Major objectives:

1. To demonstrate knowledge and understanding of theory and practical for the given course.
2. To learn how it is integrated in our daily life and how we can use different approaches to make a better society.

Teaching methods in level:

1. Initial 1-2 classes for a given course are focused on revising the basic concept and recalling what students have learnt so far. It helps them to get the perspectives about what new they are going to learn at the higher level.
2. Teaching method includes chalkboard, PowerPoint and audio-visual presentations. PPT is important to explain the complicated figures and mechanisms those are difficult to explain on chalkboard.
3. Providing sufficient class materials including textbook and article references, link for web resources and softcopy of material taught. Digitalisation of teaching material is underway.
4. To better understand the technical aspect of subject, inclusion of research articles to explain the experimental methodology.



5. Involvement of students in ongoing research projects to learn experimental methods and develop research skills.
6. Continuous evaluation of the course throughout the semester that includes class test (to analyse subject knowledge), extempore (to quickly recall topic and explaining in their own words), assignments (to analyse writing skills), presentations (to develop communication skills), research skill development etc.
7. Encouraging them to attend/present work in scientific meetings, quiz competitions and conferences.
8. Creating awareness about current research and teaching opportunities, preparing job oriented CV, informing about various job and research opportunities nationally and internationally for their career development. Preparing placement brochure.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

We have regular meetings both at students and faculty levels to achieve the programme objective and monitor the progress of teaching. Moreover, we have teaching evaluation system in all aspect by the students at the end of the semester.

47. Highlight the participation of students and faculty in extension activities :-

Students actively participate in the quiz/essay competition, sports, visit national laboratories and historical places etc.

(a) Participation in workshop:-

- ❖ Vandana Kumari presented poster on “Epigenetic regulation of Echinocandin B production in *Aspergillus nidulans*” Biosparks-2013, 15th -16th February 2014 held at JNU, New Delhi.
- ❖ Vandana Kumari presented poster on “Effects of nitrogenous sources on antifungal secondary metabolite production by *Aspergillus nidulans*” in Current trends in Life Sciences workshop held on 1st Nov. 2013.
- ❖ Kanak Raj Kanak presented poster on “Elucidation of genetic network involved in the development of ethanol tolerant yeast” in Current trends in Life Sciences workshop held on, 1st Nov. 2013.
- ❖ Gaurav Kumar, Tulika, Zeba Rizvi, Firdaus Rasool presented poster on Pedagogical shift from ‘What to Think’ to ‘How to Think’ at FICCI New Delhi.

(b) Participation in quiz: - Ms. Zeba Rizvi and Ms. Neelam Kumari secured the third position at an inter-college quiz contest organized by AIIMS Patna on 28th April 2015.

(c) Visited National laboratories:-

- ❖ School of Life Science and School of Biotechnology, JNU New Delhi
- ❖ International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi
- ❖ Institute of Microbial Technology (IMTECH), Chandigarh



- ❖ Dept. of Biotechnology, Punjab University Chandigarh
- ❖ Dept. of Biotechnology, Himachal Pradesh University Shimla
- ❖ Advanced Study Centre Shimla

(d) Visited Historical Places:-

- ❖ India Gate, Akshardham Temple, New Delhi
- ❖ Rock Garden, Sukhna Lake Chandigarh
- ❖ Rajgir & Nalanda.

48. Give details of “beyond syllabus scholarly activities” of the department :-

- a) Faculty and student actively participate in the weekly CBS seminar.
- b) Both faculty and student visited Bihar Agro Expo 2014 and introduce different aspects of Biotechnology and related areas.
- c). Participation of students in scientific discussions/debate

49. State whether the programme/department is accredited/ graded by other agencies? If yes, give details. - No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. :- Biotechnology programme developed the national research laboratory for pursuing high end research in basic and applied biology such as plant biotechnology, cancer biology, neuro-science, medical mycology and stem cell technology. Programme is actively participating in bringing design innovation centre, creating environment for innovation club and suggested ideas to include in higher education components in MHRD.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths-

1. Well qualified experienced and motivated faculty members.
2. National diversity among students and faculty.
3. Pioneer selection criteria for admission.
4. Lively and congenial academic environment
5. Faculty are pursuing high end research and attracting highest research funding in CUSB

Weakness:-

1. Lack of senior faculty such as Professor
2. Lack of supporting staff
3. Lack of space for expansion of laboratory and class room
4. Limited budget for the academic and research activities
5. Immediate requirement for instruments to perform high quality research work

Opportunities: - Emerging opportunities are available in the following areas -

1. Treatment of various diseases by Stem Cell technology.
2. Development of novel anti-microbial and anti-fungal drug for future.
3. Evaluation of possible remedies for cancer treatment.



4. Improvement of food quality and quantity for overcome the food load.
5. Treatment of different neurodegenerative diseases for human welfare.

Challenges –

1. Lack of electricity backup.
2. Lack of dark room.
3. Lack of cold room.
4. Lack of radioactive room.
5. Lack of animal and green house.

52. Future plans of the department.

1. Enrichment of Masters Practicals and strengthening the laboratory facilities for better dissertation work and MPhil-PhD research.
2. Setting up a fly-lab (Drosophila laboratory) here to do some neurobiological research.
3. Establishment of state of the art research laboratory in the field of Recombinant DNA Technology.
4. To develop a strong research skill based course structure.
5. To improve current teaching methods through simple and innovative ideas.
6. Provide help to improve current administrative processes of creating infrastructure, procurements and resources for running a research based programme.
7. Develop research infrastructure and focusing on cutting edge research projects.
8. Creating in house research job opportunities in various projects for bright students.
9. Organising scientific conferences, workshops to build network of collaboration with prestigious research organisations worldwide.
10. Penning down research proposal to get grant.
11. To run grant and to do publications.
12. To attend orientation programme/refresher course etc.



Life Science Programme

- 1) **Name of the Department :** Centre for Biological Science (Life Sciences)
- 2) **Year of establishment :** 2012
- 3) **Is the Department part of a School/Faculty of the university?:** School
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):**
 - (i) Post Graduate
 - (ii) Integrated M. Phil. Ph.D.
- 5) **Interdisciplinary programmes and departments involved:** Yes
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc. :** No
- 7) **Details of programmes discontinued, if any, with reasons:** No
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System :** Semester system
- 9) **Participation of the department in the courses offered by other departments:** Yes; Participation in the Environmental Science, Bioinformatics, Bio-technology and Education programme & Law programme.
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	Nil	Nil
Associate Professors	02	Nil	Nil
Asst. Professors	04	04	04
Others		01 Asst. Prof. (Contract)	



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided/ guiding for the last 4 years
Dr. Manoj Panchal	Ph.D.	Assistant Professor	Protein hormones and Secretary pathway	07	0
Dr. Gautam Kumar	M.Phil- Ph.D.	Assistant Professor	Physiology and Molecular Biology of Plant; Genetic Engineering and System Biology of Crop Plant	05	0
Dr. Amrita Srivastava	Ph.D.	Assistant Professor	Microbial Biochemistry	03	0
Dr. Tara Kashav	Ph.D.	Assistant Professor	Protein Structural Biology	05	0
Dr. Amit Ranjan	Ph.D.	Assistant Professor (Contractual)	Neuro Biology	02	0

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : None
13. Percentage of classes taken by temporary faculty: < 5%
14. Programme-wise Student Teacher Ratio: 51 : 04 i.e. 13 : 1
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : One Administrative Staff (LDC)
16. Research thrust areas as recognized by major funding agencies: Agricultural Crop



Plants Under Abiotic Stress

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

S.No.	Name of Faculty	Funding agency	Sanctioned amount	National/ International
1	Dr. Manoj Panchal	UGC	6 Lakhs	National
2	Dr. Manoj Panchal (Co-PI)	DST	34 Lakhs	National
3	Dr. Gautam Kumar	UGC	6 Lakhs	National
4	Dr. Gautam Kumar (Co-PI)	BRNS	12 Lakhs	National
5	Dr. Tara Kashav	DBT	14.9 Lakhs	National
Total number of grants received		3		National

18. **Inter-institutional collaborative projects and associated grants received**

a) National collaborations: Partnerships & Collaborations at Centre level (CBS)

- 1) Rajendra Memorial Research Institute of Medical Sciences (RMRIMS), Patna
- 2) Central Council for Research in Unani Medicine (CCRUM), Patna
- 3) Indian Council of Agricultural Research (ICAR-Patna)
- 4) Mahavir Cancer Sansthan, Patna
- 5) All India Institute of Medical Sciences (AIIMS), Patna
- 6) Jawaharlal Nehru University (JNU), New Delhi
- 7) All India Institute of Medical Sciences (AIIMS), New Delhi
- 8) Central Potato Research Institute (CPRI), Patna
- 9) Rajendra Agricultural University (RAU), Patna
- 10) National Centre for Biological Sciences (NCBS), Bangalore
- 11) Indian Institute of Science (IISc), Bangalore
- 12) Banaras Hindu University (BHU), Varanasi
- 13) Aligarh Muslim University (AMU), Aligarh
- 14) Bhabha Atomic Research Centre (BARC), Mumbai
- 15) JamiaHamdard University, New-Delhi
- 16) NIPER, Hajipur
- 17) Central University of Assam, Assam
- 18) IRRI South Asia Hub, Hyderabad

b) International collaborations: At Centre level (CBS)

1. Max Planck Institute for Chemical Ecology (MPI-CE), Jena, Germany



2. Swedish University of Agricultural Sciences, Alnarp, Sweden
3. Penn State College of Medicine, USA
4. ICRISAT, Hyderabad

19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.** None

20. **Research facility / centre with**

- state recognition
- national recognition
- international recognition

21. **Special research laboratories sponsored by / created by industry or corporate bodies:** None

22. **Publications:**

Dr. Manoj Panchal: 04

1. K. Rawat, K. M. Kibria, **M. Panchal**, J. B. Dacks, A. Mohammed, R. Tuteja, P. Malhotra. Protein transport mechanisms in Plasmodium falciparum as novel anti-malarial drug targets. *Tropical Medicine & International Health* volume 20 suppl. 1 pp 120 September 2015. (**Impact factor: 2.329**)
2. K.M. Kaderi Kibria, Khushboo Rawat, Christen M. Klinger, Gaurav Datta, **Manoj Panchal**, Shailja Singh, Gayatri Rajendran, Inderjeet Kaur, Veena Sharma, Joel B. Dacks, Asif Mohammed, Pawan Malhotra. (2015) A role for adaptor protein complex 1 in protein targeting to rhoptry organelles in Plasmodium falciparum. *Biochimica et Biophysica Acta* 1853 699–710 (**Impact factor: 5.20**)
3. **Panchal M**, Rawat K, Kumar G, Kibria KM, Singh S, Kalamuddin M, Mohammed A, Malhotra P, Tuteja R. Plasmodium falciparum signal recognition particle components and anti-parasitic effect of ivermectin in blocking nucleo-cytoplasmic shuttling of SRP. *Cell Death Dis.* 2014 Jan 16;5:e994. doi: 10.1038/cddis.2013.521. (**Impact factor: 5.04**)
4. Vashistha N, **Panchal M**, Dighe R, Muralidhar K. (2013) Buffalo Pituitary Gonadotropins: Characterization of Bacterially Expressed Recombinant Alpha and Hormone Specific Beta Subunits. *World J Life Sci Medical Res*, 3(1), 1-7.



Dr. Gautam Kumar : 05

1. Kaur C, **Kumar G**, Kaur S, Ansari MW, Pareek A, Sopory SK, Singla-Pareek SL (2015) Molecular cloning and characterization of salt overly sensitive gene promoter from *Brassica juncea* (BjSOS2) *Mol Biol Rep*. DOI 10.1007/s11033-015-3851-4 (**Impact factor -2.024**)
2. Soni P, **Kumar G**, Soda N, Singla-Pareek SL, Pareek A (2013) Salt overly sensitive pathway members are influenced by diurnal rhythm in rice. *Plant Signal Behav*. 8:7 (eLocation ID: e24738)
3. **Kumar G**, Kushwaha HR, Singla-Pareek SL, Pareek A. (2012) Cloning, structural and expression analysis of OsSOS2 in contrasting cultivars of rice under salinity stress. *Genes, Genomes, Genomics*. 6 (Special Issue 1), 34-41.
4. **Kumar G**, Kushwaha HR, Kumari S, Joshi R, Karan R, Panjabi-Sabharwal V, Singla-Pareek SL and Pareek A (2012) Clustered metallothionein genes are co-regulated in rice and overexpression of *OsMT1e* confers multiple abiotic stress tolerance via ROS scavenging. *BMC Plant Biol*. (doi:10.1186/1471-2229-12-107) (**Impact factor -3.81**)
5. Gill SS, **Kumar G**, Pareek A, Sharma PC, and Tuteja N (2012) Mustard: Approaches for Crop Improvement and Abiotic Stress Tolerance, In: Improving Crop Resistance to Abiotic Stress (Volume 2), Tuteja, Narendra, Gill, Sarvajeet Singh, Tiburcio, Antonio F, Tuteja, Renu (Eds.), *Wiley Wiley-VCH Verlag GmbH & Co. Weinheim*, Germany, pp. 1349-1366. (**Book Chapter**)

Dr. Amrita Srivastava : 05

1. Arun Kumar Mishra, Pawan Kumar Singh, Prashant Singh, Anumeha Singh, Satya Shila Singh, **Amrita Srivastava**, Alok Kumar Srivastava, Hridip Kumar Sarma. Phylogeny and evolutionary genetics of *Frankia* strains based on 16S rRNA and nifD–K gene sequences. (2015) *Journal of Basic Microbiology*, 55 (8): 1013–1020.
2. **Amrita Srivastava** and Arun K. Mishra (2014) Regulation of nitrogen metabolism in salt tolerant and salt sensitive *Frankia* strains. *Indian Journal of Experimental Biology*. Vol. 52: 352-358.
3. **Amrita Srivastava**, Satya S. Singh and Arun K. Mishra (2014) Modulation in fatty acid composition influences salinity stress tolerance in *Frankia* strains. *Annals of Microbiology*, 64: 1315-1323.
4. **Amrita Srivastava**, Satya S. Singh and Arun K. Mishra (2013) Sodium transport and mechanisms of sodium tolerance in *Frankia*. *Journal of Basic Microbiology*. Vol. 53: 163-174.
5. P. Singh, S.S. Singh, **A. Srivastava**, A. Singh and A.K. Mishra (2012) Structural, functional and molecular basis of cyanophage-cyanobacterial interactions and its significance. *African journal of Biotechnology*, 11: 2591-2608.



Dr. Tara Kashav: 01

1. Ronda L, Bettati S, Henry E, **Kashav T**, Sanders J, Royer W, Mozzarelli A. Tertiary and quaternary allostery in HbII from *Scapharca inaequivalvis* **Biochemistry**, 2013, 52 (12), pp 2108–2117.

Dr. Amit Ranjan: 03

1. Amit Ranjan and BN Mallick: Differential staining of neurons and glia by modified Golgi-Cox method. *Journal of Neuroscience methods* 2012, 209; 269-279.
2. Amit Ranjan, J Behari and BN Mallick (2014) Cytomorphometric changes in hippocampal CA1 neurons exposed to simulated microgravity using rats as model. *Front. Neurol.* 5:77. doi: 10.3389/fneur.2014.00077
3. Amit Ranjan, Megha Amar and B.N. Mallick: Rapid eye movement sleep deprivation induced damage to rat hippocampal CA1 neurons are mediated by noradrenaline acting on α 1-adrenoceptors (Submitted).

* **Number of papers published in peer reviewed journals (national / international):**
Total: 18

* **Chapters in Books:**

Dr. Gautam Kumar:-

1. Gill SS, **Kumar G**, Pareek A, Sharma PC, and Tuteja N (2012) Mustard: Approaches for Crop Improvement and Abiotic Stress Tolerance, In: Improving Crop Resistance to Abiotic Stress (Volume 2), Tuteja, Narendra, Gill, Sarvajeet Singh, Tiburcio, Antonio F, Tuteja, Renu (Eds.), **Wiley Wiley-VCH Verlag GmbH & Co. Weinheim**, Germany, pp. 1349-1366. (**Book Chapter**)

Dr. Amit Ranjan :-

1. Birendra Nath Mallick, Abhishek Singh, Amit Ranjan, Hemant Kumar Srivastava: Neural Regulation of REMs: Critical Role of GABA-Ergic Inhibition in Rapid Eye Movement Sleep: New Research; 2012, 35-38, NOVA Publishers.

* **Monographs:** Nil

* **Edited Books :** Nil

* **Books with ISBN with details of publishers :** Nil

* **Number listed in International Database (For e.g. Web of Science, Scopus,**



Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : Nil

*** Citation Index –**

Dr. Gautam Kumar :- 20-30 / 12

*** SNIP**

*** SJR**

*** Impact Factor –**

Dr. Gautam Kumar :- 0.5-5 / 2.5

Dr. Manoja Panchal:-5.02-5.24

*** h-index**

Dr. Tara Kashav :- 06

23. Details of patents and income generated:

Dr. Gautam Kumar's Patents :

1. Hybrid-type Histidine Kinase Gene Isolated from Indica Rice IR64, and Clones Produced Thereby. [Indian Patent Application No. 1896/DEL/2008]: [US Patent Application No. PCT/IN2009/000444 dated 11/08/09]. Inventors: Pareek A., Karan R., Kumar G., Singla-Pareek SL.
2. Method for Enhancing Regeneration Frequency Of *Brassica* Species [Indian Patent Application No. 1682/DEL/2008 A]: [US Patent Application No. PCT/IN2009/000402]. Inventors: Pareek A., Kumar G.

24. Areas of consultancy and income generated : None

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

Dr.GautamKumar :-

Invited Speaker in International Conference

1. Preparing Future Rice Plant Towards Saline Areas: Engineering SOS Pathway. International Conference on Frontier Discoveries and Emerging Opportunities in Life Sciences, H.S. Gour Central University, Sagar, 13-15 February, 2014

26. Faculty serving in

- b) **National committees b) International committees c) Editorial Boards any other (please specify) :- None**

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). :-



Dr Manoj Panchal participated in Workshop on Clinical Proteomics, July 29 – August 1, 2013, Institute of Bioinformatics, Bangalore (funded by CUB).

Dr. Gautam Kumar :

1. Dr. Gautam Kumar successfully completed ASC-orientation program.
2. Gautam Kumar (2014), Preparing Future Rice Plant Towards Saline Areas: Engineering SOS Pathway. Invited as a speaker in International Conference on Frontier Discoveries and Emerging Opportunities in Life Sciences, H.S. Gour Central University, Sagar, 13 -15 February, 2014.
3. Gautam Kumar, Sneha Lata Singla-Pareek, Ashwani Pareek (2012). Overexpression of *bjsos2*, a member of sos pathway enhances salinity tolerance in *Brassica*. Plant abiotic stress tolerance II, Vienna. Feb 22-26, 2012.
4. Gautam Kumar, Nita Lakra, Sneha L Singla-Pareek and Ashwani Pareek (2012) Deciphering the alphabets of contrasting genotypes of rice under abiotic stress. National conference on Omics for Biotechnology (NCOB – 2012), Central University of Rajasthan. Feb 22-26, 2012.
5. Invited as a speaker in Biospark School of Life Sciences, JNU, India: 11th -12th March, 2011
6. Ashwani Pareek, Sneha L Singla-Pareek, Sumita Kumari, Rratnakaran and Gautam Kumar (2011) Transcriptomics approaches for learning the alphabets of abiotic stresses in plants. International Symposium on Plant Biotechnology towards Tolerance to Stresses and Enhancing Crop Yield. Ranchi, India. Sep 28- Oct 1, 2011.
7. Gautam Kumar, Sneha L Singla-Pareek and Ashwani Pareek (2011) Salt and Genotype: Impact on plant physiology and ionomics variations in Rice (*Oryza sativa* L.) International Symposium on Plant Biotechnology towards Tolerance to Stresses and Enhancing Crop Yield. Ranchi, India. Sep 28- Oct 1, 2011.
8. Gautam Kumar, Singla-Pareek S. L., Pareek A. (2010) Preparing Future Rice Plant Towards Saline Areas: Engineering SOS Pathway, Indo-US Workshop on Plant Genomic in Crop Improvement with Reference To Biotic And Abiotic Stresses, CCS Haryana Agricultural University, 25th -27th February, Hisar, India
9. Gautam Kumar, Singla-Pareek S. L., Pareek A. (2009) Over Expression of *OsSOS2* Gene Increases Salt Tolerance in Transgenic Rice, 6th International Rice Genetic Symposium, 16th -19th November, Manila, Philippines.
10. Karan R., Gautam Kumar, Singla-Pareek S. L., Pareek A. (2008) Functional and Molecular Characterization of a Hybrid Type Histidine Kinase Gene from *O. sativa* L. 2nd International Conference on Plant Cellular and Molecular Biology New Delhi, India.
11. Gautam Kumar, Ram Singh Purty, Sneha L Singla-Pareek and Ashwani Pareek (2008) Natural variations in gene expressions in Brassica Genotype in response to salinity stress. 2nd International Conference on Trends in Cellular and Molecular Biology. Jan 5-7, 2008.



12. Ratnakaran, Gautam Kumar, Sneha L Singla-Pareek and Ashwani Pareek (2008) Isolation and characterization of a Hybrid type Histidine Kinase from *Oryza sativa* L. cv IR64. Jan 5-7, 2008.
13. Kaur S, Gautam Kumar, Pareek A. Sopory SK, and Singla-Pareek S. L. (2007) Isolation and characterization of abiotic stress-responsive promoters from *Brassica* sps. International meeting on abiotic stress. ICGEB, India
14. Ashwani Pareek, Ratnakaran, Gautam Kumar, Sumita Kumari, Ram Singh Purty, Vaishali Punjabi nee Sabharwal, Apekshita Singh, Prachi Pandey (2006) Understanding the gears of signalling machinery operative under osmotic stress response in crop plants. 75th SBC 2006, JNU, New Delhi. Dec 8-11, 2006.

Dr. Amrita Srivastava :

1. Attended and presented poster in Swiss International Conference on Industrial Microbiology held in Olten, Switzerland, 16-17 October, 2012.
2. Attended and presented poster in International Conference on Mycology and Plant Pathology Biotechnological Approaches held at B.H.U., Varanasi, from February 27-29, 2012.
3. Attended and gave oral presentation in National Symposium on Plant Biology and its Role in Sustainable food and Energy Production held at B.H.U., Varanasi, from March 17-18, 2012.
4. Attended and presented poster in National Symposium on Current Challenges in Plant Sciences: Gene to Ecosystem held at B.H.U., Varanasi, from March 24-25, 2009.
5. Attended and presented poster in 5th World Congress on Cellular and Molecular Biology held at School of Biotechnology, Devi Ahilya University, Indore from November 02-06, 2009.
6. Attended 2 Days Workshop on “Protein Modeling and Simulation: Its Applications in Biological Science” organized by the Centre for Bioinformatics, School of Biotechnology, Banaras Hindu University from September 15-16, 2009.

Dr. Tara Kashav:

1. Poster presentation on “Intrinsic Disorder in interferon Regulatory factors” at **The 25th Anniversary Symposium Of The Protein Society**, July 23-27, 2011 at Boston Marriott Copley Place, 110 Huntington Place, Boston, MA.
2. Oral Presentations on “Structural studies of *H.pylori* hexameric DnaB helicase” at **HTP Crystallization and information Management**, 18th – 20th June 2008 at NKI, Amsterdam.
3. Attended the **EMBO workshop** on "Computational Aspects of the Protein Target Selection, Protein Production Management and Structure Analysis Pipeline" 22nd – 26th September 2008 at the European Bioinformatics Institute in Hinxton, U.K.



4. Poster presentation on “Preliminary crystallographic analysis of N-terminal domain of DNA Helicase from *Helicobacter pylori*” (2006), **International symposia on Macromolecular Crystallography**, Chennai, India.
5. Poster presentation on “N-terminal domain dictates the quaternary state of *Helicobacter pylori* hexameric DnaB” helicase at **11th ADNAT Convention** on Advances in Structure Biology & Structure Prediction at Centre for Cellular and Molecular Biology, Hyderabad, Feb 23- 25, 2007, India.
6. Participation in **National Symposium on Biophysics: Trends in Biomedical research**, at Indian National Science Academy, New Delhi, Feb 13-15, 2007, India.
7. Poster presentation on "N-terminal domain dictates the quaternary states of *Helicobacter pylori* hexameric DnaB helicase. At **Society of Biological Chemistry**, 75th Annual meeting Dec 8th-11th2006. Delhi.

Dr. Amit Ranjan's Publications :

1. **2014** : Participated as invited speaker in the National seminar on Advance in Mobile phone and cell tower Radiation on Environmental Health on 5-6th December, 2014.
2. **2012** : Poster presented and attended “XXX Annual conference of Indian Academy of Neuroscience (IAN) and International symposium on Translational Neurosciences; unravelling mysteries of brain in health disease at GNDU, Amritsar
3. **2009** : Workshop on Polygraph & Neurophysiology” held at AYUSH Auditorium, JN bhathiya Chikithsa Evam Homoeopathy Bhavan, Janakpuri, New Delhi
4. **2009** : National Workshop cum Symposium on Nanoscience: Theory and Application and Microwaves: Principle and Applications organized by JNU and MASI at JNU
5. **2009** : Principle and Practice of light microscopy” A Training course with a Focus on Asia organized by National centre for Biological Sciences and 100X imaging at NCBS and TIFR, Bangalore.
6. **2008** : International Structural Neuroscience Conference on peptides held at Nagpur, India
7. **2008** : SERC School in Neurosciences” held at Department of Pharmaceutical Sciences, Nagpur, India

28. Student projects

- **percentage of students who have done in-house projects including inter-departmental projects : 100 %**
- **percentage of students doing projects in collaboration with other universities / industry / institute :- 100% (2 months summer internship as a part of master program curriculum)**



29. Awards / recognitions received at the national and international level by

Faculty:

Dr. Gautam Kumar's Awards :

1. 2012, Young Scientist Travel Award by DST, Government of India to participate in Plant Abiotic Stress Tolerance II, Vienna, Austria, 22th -25th February, 2012.
2. 2010, First Poster Awarded in Indo-US Workshop on Plant Genomic in Crop Improvement with Reference To Biotic And Abiotic Stresses, CCS Haryana Agricultural University, Hisar, India 25th -27th February 2010.
3. 2009, Awarded International travel grant by CSIR, Government of India to participate in 6th International Rice Genetic Symposium, Manila, Philippines, 16th - 19th November 2009.
4. 2010, Meritorious students in Life Sciences Awarded Senior Research Fellowship by The University Grants Commission, Govt. of India.
5. 2007-09, Meritorious students in Life Sciences Awarded the Junior Research Fellowship by The University Grants Commission, Govt. of India.
6. 2002-2004, Merit-Cum-Mean Fellowship by Jawaharlal Nehru University during M.Sc.

Dr. Amrita Srivastava's Awards :

1. Gold medalist in M.Sc. Bio-Science, Banasthali Vidyapith, Rajasthan
2. Qualified GATE 2007 with 94.94 percentile
3. Qualified CSIR JRF in 2007
4. CSIR-JRF (01.07.2008 to 30.06.2010)
5. CSIR-SRF (01.07.2010 – Contd.)
6. Best paper presentation award at “International Conference on Mycology and Plant Pathology Biotechnological Approaches” held on February 27-29, 2012 at Centre of Advances Study in Botany, Banaras Hindu University, Varanasi.
7. Best oral presentation at “National Symposium on Plant Biology and its Role in Sustainable Food and Energy Production” held on March 17-18, 2012 at Department of Botany, GGV, Bilaspur.
8. DST Young Scientist Travel Grant - 2012



Dr. Tara Kashav's Awards :

1. 8/2006 - 8/2009 :- Senior Research fellowships (SRF) from University Grant Commission (UGC) for pursuing PhD at Jawaharlal Nehru University, India.
 2. 4/2008 - 10/2008 :- DAAD Fellowship for six months for pursuing PhD at Institut fuer kristallographie, Freie Universitaet Berlin, Berlin, Germany.
 3. 8/2004 - 8/2006 :- Junior Research fellowships (JRF) from University Grant Commission (UGC) for pursuing PhD at Jawaharlal Nehru University, India.
 4. 2005 :- **Received Best Poster award** for poster presentation on “Structural studies of DnaB helicase from *Helicobacter pylori*” in Symposium on Macromolecular Crystallography at Centre for DNA Fingerprinting and Diagnostics, Hyderabad, Nov 15-16, 2005, India.
- **Doctoral / post doctoral fellows:** - NIL
 - **Students :-**

Session	Name of Student	Awards / recognitions
2012-14	RiddhiPrabha	GATE (2014)
	Anumeha	GATE (2014), UGC-NET JRF (2014), CSIR JRF(2014)
	SoniaBasak	GATE (2015)
2013-15	SoumyajyotiGhosal	GATE (2015)
2014-16	FauziaParween	Indian National Science Academy , New Delhi

30. **Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any. :-** Yes
31. **Code of ethics for research followed by the departments:** Ethics for pursuing research in different biological science areas are being followed according to DBT-IBSC norms.
32. **Student profile programme-wise:**

Name of the Programme refer to question no. 4)	Session	Selected		Pass percentage	
		Male	Female	Male	Female
M.Sc. Life Science	2012-14	01	07	01	07
	2013-15	15	05	13	03
	2014-16	15	07	-	-
	2015-17	11	11	-	-



Integrated M.Phil-Ph.D. (Life Science)	January 2014- onward	0	01	-	-
	July 2015- onward	0	01	-	-

33. Diversity of students

Name of the Programme (refer to question no. 4)		% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MSc Life Science	2014	0	87	13	0
	2015	0	78	22	0
Int. MPhil- PhD Life Science	2014	50	0	50	0
	2015	0	100	0	0

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise :

Session	Name of Student	Awards recognitions /
2012-14	RiddhiPrabha	GATE (2014)
	Anumeha	GATE (2014), UGC-NET JRF (2014), CSIR JRF(2014)
	SoniaBasak	GATE (2015)
2013-15	SoumyajyotiGhosal	GATE (2015)
2014-16	FauziaParween	Indian National Science Academy , New Delhi



35. Student progression :

Student progression	Percentage against enrolled
UG to PG	Zero
PG to M.Phil.	15 %
PG to Ph.D.	40%
Ph.D. to Post-Doctoral	NIL
Employed	
<input type="checkbox"/> Campus selection	5%
<input type="checkbox"/> Other than campus recruitment	--
Entrepreneurs	--

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	0
from other universities within the State	20%
from universities from other States from	80%
universities outside the country	0

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : One

38. Present details of departmental infrastructural facilities with regard to

- d) **Library :- No**
- e) **Internet facilities for staff and students : - Yes**
- f) **Total number of class rooms :- 1 (One)**
- g) **Class rooms with ICT facility :- Yes**
- h) **Students' laboratories :- Yes**
- i) **Research laboratories :-same as 'e'**



39. List of doctoral, post-doctoral students and Research Associates

- a) **from the host institution/university:- Nil**
- b) **from other institutions/universities :-One**

40. Number of post graduate students getting financial assistance from the university.
One (CUBET topper) and 02 in each semester

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. :- Yes, The new programme was started after critical evaluation by the Board of Study (BoS) committee further approved by Academic Council (AC).

42. Does the department/Centre (CBS) obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? :-

Centre welcomed feedback from different faculty members for curriculum development as well as teaching learning evaluation. The information provided by faculty member are discussed during the Board of Study (BoS) meeting and incorporate valuable suggestion or points for better shaping up curriculum of the programme.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes, the evaluated sheets are discussed with respective faculty members for improvement.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?

We warmly welcome viable suggestions put forward by alumni and try to implement at centre level.

43. List the distinguished alumni of the department (maximum 10).

Session	Name of Student	Awards / recognitions
2012-14	RiddhiPrabha	GATE (2014)
	Anumeha	GATE (2014), UGC-NET JRF (2014), CSIR JRF(2014)
	SoniaBasak	GATE (2015)
2013-15	SoumyajyotiGhosal	GATE (2015)
2014-16	FauziaParween	Indian National Science Academy , New Delhi



44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. Symposium on Current Trends in Life Science

1) Special lecture by Prof. K. Muralidhar (FNA & Former HOD of Dept. of Zoology, DU) on Current Trends In Biology Teaching & Research- Career options at CUB, Patna on Feb 27th, 2013.

2) Symposium on Current Trends in Life Science on November 01, 2013

- Lecture of the Chief Guest, Dr. Padma Shri JK Singh, Director, Mahavir Cancer Sansthan
- Lecture by Dr. RS Singh , Scientist, BAU, Sabour
- Lecture by Dr. Vahab Ali , Scientist, RMRI, Patna

45. List the teaching methods adopted by the faculty for different programmes.

Major objectives at Centre level (CBS):

3. To demonstrate knowledge and understanding of theory and practice for the given course.
4. To learn how it is integrated in our daily life and how we can use different approaches to make a better society.

Teaching methods in Centre level (CBS) :

1. Initial 1-2 classes for a given course are focused on revising the basic concept and recalling what students have learnt so far. It helps them to get the perspectives about what new they are going to learn at the higher level.
2. Teaching method includes chalkboard, PowerPoint and audio-visual presentations. PPT is important to explain the complicated figures and mechanisms those are difficult to explain on chalkboard.
3. Providing sufficient class materials including textbook and article references, link for web resources and softcopy of material taught. Digitalisation of teaching material is underway.
4. To better understand the technical aspect of subject, inclusion of research articles to explain the experimental methodology.
5. Involvement of students in ongoing research projects to learn experimental methods and develop research skills.
6. Continuous evaluation of the course throughout the semester that includes class test (to analyse subject knowledge), extempore (to quickly recall topic and explaining in their own words), assignments (to analyse writing skills), presentations (to develop communication skills), research skill development etc.
7. Encouraging them to attend/present work in scientific meetings, quiz competitions and conferences.



8. Creating awareness about current research and teaching opportunities, preparing job oriented CV, informing about various job and research opportunities nationally and internationally for their career development.
- 46. How does the department/Centre (CBS) ensure that programme objectives are constantly met and learning outcomes are monitored?**
We have regular meetings both at students and faculty levels to achieve the programme objective and monitor the progress of teaching. Moreover, we have teaching evaluation system in all aspect by the students at the end of the semester.
- 47. Highlight the participation of students and faculty in extension activities :-**
Students participate in quiz competition, sports, visit national laboratories national zoological park and historical places etc.
- 48. Give details of “beyond syllabus scholarly activities” of the department :-**
- Exposure of the students to the agricultural field and training about different aspects of agricultural sciences through ICAR Patna field visit.
 - Publications/ participation in conference
- 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. - No**
- 50. Briefly highlight the contributions of the department/Centre (CBS) in generating new knowledge, basic or applied. :-** Centre for Biological Sciences (CBS) actively developed the national research laboratory for pursuing high end research in basic and applied biology such as agricultural crop plants, Microbiology and Protein Structure biology. Programme is actively participating in bringing design innovation centre, creating environment for innovation club.
- 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department/Centre (CBS).**

Strengths:-

- Well qualified experienced and motivated faculty members
- National diversity among students and faculty
- Pioneer selection criteria for admission
- Lively and congenial academic environment
- Faculty are pursuing high end research and attracting research funding in CUSB

Weakness:-

- Lack of senior faculty such as Associate Professor/Professor
- Lack of supporting staff
- Lack of space for expansion of laboratory and class room
- Limited budget for the academic and research activities
- Immediate requirement for instruments to perform high quality research work

Opportunities:- Emerging opportunities are available in the following areas -



1. Improvement of agricultural crops for their suitable acclimation to the changing climate
2. Study about the active principles of the medicinal plants

Challenges –

1. Lack of electricity backup.
2. Lack of dark room.
3. Lack of cold room.
4. Lack of radioactive room.
5. Lack of animal and green house.

52. Future plans of the department/centre (CBS).

1. Enrichment of Masters practical and strengthening the laboratory facilities for better dissertation work and MPhil-PhD research.
2. Establishment of state of art research laboratory in the field of Recombinant DNA Technology.
3. Establishment of green house and agro-form for betterment of applied level research.
4. To develop a strong research skill based course structure.
5. To improve current teaching methods through simple and innovative ideas.
6. Provide help to improve current administrative processes of creating infrastructure, procurements and resources for running a research based programme.
7. Develop research infrastructure and focusing on cutting edge research projects.
8. Creating in house research job opportunities in various projects for bright students.
9. Organising scientific conferences, workshops to build network of collaboration with prestigious research organisations worldwide.
10. Penning down research proposal to get grant.
11. To run grant and to do publications.
12. To attend orientation programme/refresher course etc.



Evaluative Report of **Centre for Environmental Sciences**

Centre for Environmental Sciences

- 1) Name of the Department : Centre for Environmental Sciences
- 2) Year of establishment : 2010

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D. / M.Phil. students guided/ guiding in last 4 years
Dr. Ram Kumar	Ph.D.	Associate Professor	Population and Ecosystem Ecology Restoration Ecology and Conservation Biology Biocontrol and Biomanipulation	17 Years	02
Dr. Pradhan Parth Sarthi	M. Sc. (Tech), Ph. D.	Associate Professor & Head	Climate Modelling, Climate Change, Atmospheric Science, Meteorology	15 Years (excluding Ph. D)	One Completed in 2010 Two continue
Dr. Rajesh Kr. Ranjan	Ph.D.	Assistant Professor	Organic Geochemistry, Biogeochemistry, Environmental Chemistry/ Geochemistry	5 years	0
Dr. Namita Das Saha (On lien)	Ph.D.	Assistant Professor	Bio Technology, Bio diversity	5 years	0
Dr. Prashant	Ph.D.	Assistant Professor	Wastewater Treatment, Solid Waste Management, Environmental Impact Assessment, Environmental	5 years	0



			laws, Environment and Development		
Dr. Ningombam Linthoingambi Devi	Ph.D.	Assistant Professor	Biogeochemistry of persistent organic pollutants in air, water and soil , heavy metal pollution, solid waste management	4 years	0

3) **Is the Department part of a School/Faculty of the university?** : Yes ; School of Earth, Biological and Environmental Sciences

4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**

- (i) Post Graduate
- (ii) Integrated M. Phil. Ph.D.

5) **Interdisciplinary programmes and departments involved :** Centre for Environmental Sciences, School of Earth, Biological and Environmental Sciences

6) **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

7) **Details of programmes discontinued, if any, with reasons:** N.A.

8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System :** Semester system

9) **Participation of the department in the courses offered by other departments :** Department of Computer Sciences (Co-Guide: M. Tech thesis)

10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors /Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	Nil	--
Associate Professors	02	02	02
Asst. Professors	04	04	03
Others			

11) **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**



- 12) List of senior Visiting Fellows, adjunct faculty, emeritus professors : NA
- 13) Percentage of classes taken by temporary faculty–programme-wise information : > 10%
- 14) Programme-wise Student Teacher Ratio : 49 : 5 i.e. 9.8 : 01
- 15) Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: One Administrative Staff (LDC) shared by 4 programmes (at school level)
- 16) Research thrust areas as recognized by major funding agencies : Climate Modelling , Ecology, Bio Geochemistry, Waste Water Treatment, Eco Taotoxicology, Bio Technology
- 17) Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Name	Funding agency	Sanctioned amount	National/ International
Dr. Ram Kumar	Department of Science & Technology	34.17 lakhs	National
Dr. Pradhan Parth Sarthi	DST Project, India	28 lakhs (approx)	National
	DST Project, India	32 lakhs (approx)	National
	IBM India	2.25 lakhs	National
Dr. Rajesh Kr. Ranjan	SERB-DST Young Scientist	17.88 Lakh	National
Dr. Prashant	UGC	6 lakhs	National
Dr. Ningombam Linthoingambi Devi	UGC	6 lakhs	National
Total :-		126.3 lakhs	



18) Inter-institutional collaborative projects and associated grants received :

(i) National collaboration

- National Institute of Malaria Research (Indian Council of Medical Research) Sector 8, Dwarka, New Delhi-110 077.
- National Institute of occupational Health, (Indian Council of Medical Research), Mehgani Nagar, Ahmedabad-380016
- Yamuna biodiversity Park, CEMDE, University of Delhi, Delhi 11007.
- Indian Institute of Tropical Meteorology (IITM), Pune, India
- Centre for Atmospheric Sciences, Indian Institute of Technology Delhi (IIT Delhi), New Delhi, India
- Department of Geophysics, Banaras Hindu University, Varanasi, UP, India
- Department of Botany, TM Bhagalpur University on “Wetlands in the State of Bihar and some preliminary hydraulic and ecological habitat descriptions at Vikramshila Gangetic Dolphin Sanctuary), University Dept. of Botany, T. M. Bhagalpur University, Bhagalpur – 812 007.
- Industrial Consultancy Project’ for Cairn India Limited, Rajasthan. Title – Consultancy services for installation of constructed wetlands / reed bed for domestic sewage treatment.
- MoU is under pipeline between CUSB and India Meteorological Department (Ministry of Earth Science), New Delhi

(ii) International collaboration :

- Institute of Marine Biology National Taiwan Ocean University, Taiwan ,
- Université Lille Nord de France, F-59000 Lille, France, University of Science and Technology, Lille, LOG, F-62930 Wimereux, France e CNRS, UMR 8187, F-62930 Wimereux, France
- Hadley Centre, UK Met Office, UK
- Himalayan University Consortium (HUC), under ICIMOD, Kathmandu, Nepal (Under process).
- DST- RFBR Proposals on collaboration with Prof. Victor R. Alekseev, Zoological Institute of the Russian Academy of Sciences, University emb, 1, St. Petersburg, Russia

19) Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : N.A.

20) Research facility / centre with : Nil

- state recognition
- national recognition
- international recognition



21) Special research laboratories sponsored by / created by industry or corporate bodies: NA

22) Publications:

Dr. Ram Kumar: 22 (2011-15):

Ms. In press:

1. Hasko F. Neemann, Gopal Sharma, **Ram Kumar***, Ashish Sheetal and Saryu Roy (In press). Do the rivers of a region (Jharkhand) Damodar and Subernarekha differ in biodiversity of aquatic macro-zoo-benthos and functional feeding groups? *Aquatic Ecosystem Health & Management*, 16:4, 374-384.

Ms. Under revision/Communicated

1. V. R. Alekseev, J-S.Hwang, , H-U. Dahms, **Ram Kumar**,_ R. Miracle, and S., Malyavin (revised version submitted) Geographical variation in diapause abilities in aquatic invertebrates; **Arch. Hydrobiol.** (I.F. 1.8)
2. **Ram Kumar**, R. Dhankar, A. Souissi, S. Souissi (communicated) Direct observation of the predation behavior of a cyclopoid copepod preying on larval (fish, *Artemia* and mosquito larvae) prey and shaping aquatic biodiversity. **Behavioral ecology**.
3. Raunak Dhanker, **Ram Kumar**, J-S. Hwang (In press) Predation ecology of *Apocyclops royi* (Copepoda: Cyclopoida): Satiation level, prey selection and functional responses, **Marine Ecology**

2013 onwards

1. **Ram Kumar**, P. Muhid, H-U Dahms, J. Sharma and J-S. Hwang (2015) Biological mosquito control is affected by alternative prey. (*Zoological Studies*) 54:55: 1-18.
DOI;10.1186/s40555-015-0132-9. <http://www.zoologicalstudies.com/content/pdf/s40555-015-0132-9.pdf>
2. Raunak Dhanker, **Ram Kumar** (2014). Efficiency of copepods to control *Aedes aegypti* Larvae in medium applied with insecticides. *In Climate Change, Aquatic Community Structure and Disease/Pp 40-56*. Ilavart Publication, New Delhi, (ISBN: 81-904058-7X).
3. **Ram Kumar**, Amit Kumar Prasad, Kalpana Kaushik and S. N. Tiwary (2015). Application of Vermifiltration and bacterivorous zooplankton enhances efficiency of wastewater treatment. *Proceeding of the National Symposium on Advances in Environment Sciences* Central University of Gujarat, Gandhinagar, Gujarat Pp 67-69.
4. Raunak Dhanker, Juan Carlos Molinero, **Ram Kumar**, Li-Chun Tseng, Adriana Ianora and Jiang-Shiou Hwang (2015). Responses of the estuarine copepod *Pseudodiaptomus annandalei* to polyunsaturated aldehydes: Reproduction, survival and postembryonic development, **Harmful Algae**: 74–81. <http://dx.doi.org/10.1016/j.hal.2015.02.002>
5. C. H. Wu, L. C. Tseng, **Ram Kumar**, T. Kao, G. –S. Lian, J. S. Hwang (2015). Six years of observations of copepod community structure in a mixed semi-enclosed embayment in the tropical West Pacific: *In Climate Change Aquatic Community Structure and Disease/Ed. Ram Kumar*, Ilavart Publication, New Delhi, (ISBN: 81-904058-7X).
6. S.P. Roy, Richa Roy, A.K. Prabhakar, A. Pandey, **Ram Kumar** (2013). Longitudinal and temporal patterns of zooplankton distribution and community structure in the Vikramshila



- Gangetic Dolphin Sanctuary, Bihar, India, *Aquatic Ecosystem Health & Management*, 16:4, 374-384; <http://dx.doi.org/10.1080/14634988.2013.857564>
7. Raunak Dhanker, **Ram Kumar**, Li-Chun Tseng and Jiang-Shiou Hwang (2013). Ciliate (*Euplotes* sp.) predation by *Pseudodiaptomus annandalei* (Copepoda: Calanoida) and the effects of mono-algal and pluri-algal diets. *Zoological Studies* 2013, 52:34 ; <http://www.zoologicalstudies.com/content/52/1/34>.
 8. **Ram Kumar**, H. Neseemann, G. Sharma, L.-C. Tseng, A. K. Prabhakar & S. P. Roy (2013). Community structure of macrobenthic invertebrates in the River Ganga in Bihar, India. *Aquatic Ecosystem Health & Management*, 16:4, 385-394; <http://dx.doi.org/10.1080/14634988.2013.846200>
 9. L.-C. Tseng , H.-U Dahms , **Ram Kumar** , Q.-C. Chen & J.-S. Hwang (2013): Autumn community structure in the shallow mixed layer of the subtropical South China Sea reveals a peculiar copepod and zooplankton assemblage, *Journal of Natural History*, 47:5-12, 667-683; <http://dx.doi.org/10.1080/00222933.2012.716866>
 10. R. Dhanker, **Ram Kumar**, J.-S. Hwang (2013). How effective are *Mesocyclops aspericornis* (Copepoda: Cyclopoida) in controlling mosquito immatures in the environment with an application of phytochemicals? *Hydrobiologia*. 716:147–162; DOI 10.1007/s10750-013-1559-9
 11. R. Dhanker, **Ram Kumar**, L. C. Tseng, J. S. Hwang (2013). Ciliate (*Euplotes* sp.) predation by *Pseudodiaptomus annandalei* (Copepoda: Calanoida) and the effects of mono-algal and pluri-algal diets *Zoological Studies*, Dhanker et al. *Zoological Studies* 2013, 52:34; <http://www.zoologicalstudies.com/content/52/1/34>

2012

1. **Ram Kumar**, Sami Souissi, Jiang-Shiou Hwang (2012). Vulnerability of carp larvae to copepod predation as a function of larval age and body length. *Aquaculture* 338-341: 274-283. (I.F. 2.1). <http://www.sciencedirect.com/science/article/pii/S0044848612000026>
2. R. Dhankar, **Ram Kumar**, J. – S. Hwang (2012). Predation by *Pseudodiaptomus annandalei* (Copepoda: Calanoida) on rotifer prey: size selection, egg predation and effect of algal diet. *Journal of Experimental Marine Biology and Ecology*, 414-415: 44-53 (IF-2.1) <http://www.sciencedirect.com/science/article/pii/S0022098112000238>
3. M. S. Mahjoub, **Ram Kumar**, S. Souissi, F. Schmitt, J. –S. Hwang (2012) Effect of turbulent flow on the ingestion rates in European sea-bass (*Dicentrarchus labrax*) larvae: an experimental study. *Journal of Experimental Marine Biology and Ecology*, 416-417: 61-67 (IF-2.1). <http://www.sciencedirect.com/science/article/pii/S0022098112000366>

2011

1. L. –C. Tseng, **Ram Kumar**, Q. –C. Chen, J. S. Hwang (2011). Faunal shift between two Copepod Congeners (*Temora discaudata* and *T. turbinata*) in the Vicinity of two Nuclear Power Plants in Southern East China Sea: Spatiotemporal patterns of population trajectories over a decade. *Hydrobiologia* 666: 301-315 (I. F. 1.76). <http://www.springerlink.com/content/00g773tq57236316/>
2. D. Beyrend-Dur, **Ram Kumar**, T. R. Rao, S. Souissi , S. H. Cheng and J. S. Hwang (2011) Demographic parameters of adults of *Pseudodiaptomus annandalei* (Copepoda: Calanoida): temperature-salinity and generation effects. *Journal of Experimental Marine Biology and Ecology*; 404:1-14.(I.F.2.3). <http://www.sciencedirect.com/science/article/pii/S0022098111001912>
3. L. –C. Tseng, **Ram Kumar**, Q.-C. Chen, J. –S. Hwang (2011) The summer distribution of *Noctiluca* and mesozooplankton abundance in the western and southern East China Sea before the Three Gorges Dam operation *Hydrobiologia* 666: 239-356(I. F. 1.76). <http://www.springerlink.com/content/h03q87331225036j/>
4. Shin-Hong Cheng, Samba Kâ, **Ram Kumar**, Chung-Su Kuo and Jiang-Shiou Hwang (2011) Effects of salinity, food level and presence of microcrustacean zooplankters on the population dynamics of the rotifer *Brachionus rotundiformis*. *Hydrobiologia*, 666:289-299 (I.F.1.76) <http://www.springerlink.com/content/1jpr1p1006381186/5>.



5. Chien-Huei Lee, Hans-Uwe Dahms, Shin-Hong Cheng, Sami Souissi, Francois G. Schmitt, **Ram Kumar** and Jiang-Shiou Hwang (2011). Mating behaviour of *Pseudodiaptomus annandalei* (Copepoda, Calanoida) at calm and hydrodynamically disturbed waters. **Marine Biology** (I.F.2.0). DOI: 10.1007/s00227-011-1632 - 8
<http://www.springerlink.com/content/j55372843063q034/>

Dr. Rajesh Kr. Ranjan: - 11

1. **Ranjan RK**, Routh J, Klump JV, Ramanathan AL., 2015. Sediment biomarker profiles trace organic matter input in the Pichavaram mangrove complex, southeastern India, *Marine Chemistry*, 171, 44–57
2. Singh, G., Chauhan, R., **Ranjan, R.K.**, Prasad, M.B.K., Ramanathan, AL. 2015. Phosphorus dynamics in mangroves of India. *Current Science*, 108, 1874-1881.
3. Sappal, SM., Ramanathan AL., **Ranjan RK.**, Singh G., Kumar A 2014. Rare earth elements as biogeochemical indicators in mangrove ecosystems (Pichavaram, Tamil Nadu, India). *Journal of Sedimentary Research*, 84, 781-791. Imp. factor: 1.94.
4. Sappal, SM., Ramanathan AL., **Ranjan RK.**, Singh G. 2014. Sedimentary geochemistry of Chorao Island, Mandovi mangrove estuarine complex, Goa. *Indian Journal of Geo-Marine Sciences (IJMS)*4: 1085-1094. Imp. factor: 0.313).
5. Kumar RP, **Ranjan RK***, Ramanathan AL, Singh SK, Srivastava, PK 2014. Geochemical modeling to evaluate the mangrove forest water. *Arabian Journal of Geosciences*, 6:3257 – 3267) imp. factor: 1.141) DOI 10.1007/s12517-014-1539-z
6. **Ranjan RK**, Singh G, Routh J, Ramanathan AL, 2013. Trace metal fractionation in the Pichavaram mangrove- estuarine sediments in southeast India after the tsunami of 2004. *Environmental Monitoring and Assessment*. 185:8197–8213, (Springer, imp. factor: 1.436)
7. **Ranjan RK***, Ramanathan AL, Parthasarathy P, Kumar, A., 2013. Hydrochemical characteristics of groundwater in the plains of Phalgu River in Gaya, Bihar, India. *Arabian Journal of Geosciences*, 6:3257 – 3267) imp. factor: 1.141). Citation: 01)
8. **Ranjan RK**, Routh J, Ramanathan AL., Klump JV, 2012. Polycyclic aromatic hydrocarbon fingerprints in the Pichavaram mangrove-estuarine sediments, southeastern India, *Organic Geochemistry*. 53: 88–94 (Elsevier; imp. factor: 2.785).
9. Kumar, A., Ramanathan AL., Prabha, S., **Ranjan R.K.**, Ranjan S., Singh G., 2012. Metal Speciation studies in the aquifer sediments of Semria Ojhapatti, Bhojpur district, Bihar. *Environmental Monitoring and Assessment* 184:3027-42 (Springer, imp. factor: 1.436).
10. **Ranjan RK**, Routh J, Ramanathan AL., Klump JV 2011. Elemental and stable isotope records of organic matter input and its fate in the Pichavaram mangrove-estuarine sediments (Tamil Nadu, India). *Marine Chemistry* 126:163-172 (Elsevier; imp. factor: 3.074). (Citation: 03).
11. **Ranjan RK***, Ramanathan AL, Chauhan R., Singh G 2011. Phosphorus fractionation in sediments of the Pichavaram mangrove ecosystem, south-eastern coast of India. *Environmental Earth Sciences* 62: 1779-1787(Springer, imp. factor: 0.678).

Chapters in books (Peer reviewed)

1. Kumar H, **Ranjan RK**, Yadav S, Kumar A, Ramanathan AL., 2015. Hydrogeochemistry and Arsenic Distribution in the Gorakhpur District in the Middle Gangetic Plain, India. In: (Eds.) AL. Ramanathan, Scott Johnston, Abhijit Mukherjee, Bibhash Nath. Safe and



Sustainable Use of Arsenic-Contaminated Aquifers in the Gangetic Plain: A Multidisciplinary Approach, Springer, New Delhi 97-110.

2. Ramanathan AL., **Ranjan RK**, Prasad M.BK., Chauhan R., Singh G., 2010. Sediment-nutrient dynamics in selected Indian mangrove ecosystems – land use and climate change implications. Sediment Dynamics for a Changing Future. Red book -IAHS Publ. 337, 84-92.
3. Singh G, **Ranjan RK**, Chauhan R, Ramanathan AL. 2010. Dissolved metal distribution in Indian mangrove ecosystem: Case studies from East Coast of India In : (Eds.) Ramanathan AL., Bhattacharya, P., Dittmar, T., Prasad, MBK. Nepunae, B., Management and Sustainable Development of Coastal Zone Environments, Springer (Jointly with Capital Publisher) New Delhi.

Dr. Prashant:- 02

1. **Prashant**, Praveen Prakash and Pankaj Kumar (2013), Primary study of medical waste management in hospitals of patna, In S. Suresh and K. Sudhakar ed. Global scenario in environment and energy, BSP BS Publication, ISBN: 978-81-7800-286-6.
2. **Prashant**, S. K. Billore, J. K. Sharma, N. Singh and H. Ram (2013), Treatment of wastewater and restoration of aquatic systems through an eco-technology based constructed treatment wetlands – a successful experience in Central India, Water Science & Technology, 68.7, pp1566-1573.

Dr Ningombam Linthoingambi Devi :- 09

1. **Devi NL**,Yadav IC, Qi S, Dan Y, Zhang G, Raha P 2015. Environmental carcinogenic polycyclic aromatic hydrocarbons in soil from Himalayas, India: Implications for spatial distribution, sources apportionment and risk assessment. **Chemosphere** 144 (2016) 493-502.
2. **Devi NL**, Yadav IC, Raha P,Qi S,Dan Y.2015. Spatial distribution, source apportionment and ecological risk assessment of residual organochlorine pesticides (OCPs) in the Himalayas. **Environ Sci Pollut Res** DOI 10.1007/s11356-015-5237-5.
3. Yadav IC, **Devi NL**, Syed JH, Cheng Z, Li J, Zhang G,Jones KC.2015.Current status of persistent organic pesticides residues in air, water, and soil and their possible effect on neighboring countries: A comprehensive review of India. **Sci Total Environ** 511:123-137(*most downloaded article in 2014*)
4. **Devi NL**, Yadav IC, Shihua Qi,Chakraborty P,Dan Yang.2014.Distribution and risk assessment of polychlorinated biphenyls (PCBs) in the remote air and soil of Manipur, India. **Environmental Earth Science** 72:3955-3967.
5. **Devi NL**, Shihua Qi, Yadav IC. 2013. Atmospheric Polycyclic Aromatic Hydrocarbons (PAHs) in Manipur of the Northeast India: Monitoring on Urban, Rural and Mountain sites. **Polycyclic Aromatic Compounds**, 34:12–34.



6. **Devi NL**, Chakraborty P, Shihua Q, Zhang G. 2013. Selected organochlorine pesticides (OCPs) in surface soils from three major states of the northeastern part of India. *Environmental Monitoring and Assessment*, 185(8): 6667-6676.
7. Yadav IC, **Devi NL**, Sing S. 2015. Spatial and temporal variation in arsenic in the groundwater of upstream of Ganges river basin, Nepal. *Environmental Earth Science*, 73: 1265-1279.
8. Yadav IC, **Devi NL**, Sing S. 2015. Reduction dissolution of iron-oxyhydroxides directs groundwater arsenic mobilization in the upstream of Ganga river basin, Nepal. *Journal of Geochemical Exploration*, 148: 150-160.
9. Yadav IC, **Devi NL**, Mohan D, Shihua Qi, Singh S. 2013. Assessment of Groundwater Quality with Special Reference to Arsenic in Nawalparasi District, Nepal using Multivariate Statistical Techniques. *Environmental Earth Science* 72: 259-273.

Books/Chapters

1. Yadav IC, Devi NL. 2015. *Pesticides Classification and Its Impact on Human and Environment*. In: Gurjar BR, Govil JN (Eds.), *Environmental Science and Engineering*. STUDIUM PRESS LLC, USA P.O. Box 722200, Houston, TX 77072, USA (in press)
2. Yadav IC, Devi NL, Singh S. 2012. *Microbial Degradation of Chlorinated Aromatic Hydrocarbon*. In: Tiwari SP., Sharma R., Singh RK (Eds.), *Recent Advances in Microbiology*. NOVA PUBLICATION, USA (ISBN: 978-1-62257-237-3).
3. Yadav IC, Devi NL, Prasad AGD. 2011. *Municipal Solid waste management in Mysore India: problems and prospects*. LAMBERT ACADEMIC PUBLISHING GMBH & CO., GERMANY.
4. **Devi NL**, Yadav IC, Belagali SL. 2011. *Quantitative and Qualitative Study of Paper Industry Effluent-a Case Study of South India paper Mill (SIPM)*. LAMBERT ACADEMIC PUBLISHING GMBH & CO., GERMANY.

Dr. Ram Kumar:

Invited/Plenary lectures/Session Chaired.

1. Delivered plenary lecture on “Life history strategy of zooplankton in ephemeral wetlands during the National Conference on “Aquatic Ecosystem and their management: Recent trends and future perspectives”, 21-23 March 2014” at Central University of Bihar, Patna, Bihar, March 22-13, 2014.
2. Delivered plenary lecture on “Aquatic biodiversity and copepods “during the Faculty Development Programs at BIT, Patna, India.
3. Delivered inaugural lecture and acted as resource person in Faculty Development Programme held at Birla Institute of Technology Patna on 20-21 July 2013.
4. Chaired a session in International conference on monitoring and management of degraded wetlands held at Pattaya, Thailand 5-9 August, 2011.



Invited/Plenary lectures

1. Delivered Invited lecture on “**Evaluation of Integrated Biofiltration System for onsite Wastewater treatment**” in the National Seminar on Sustainable Solutions to Water, Wastewater and Solid waste, during May 8-9, 2015, jointly organized by AN College Patna and CSIR-NEERI, Mumbai Zonal Center at AN College Patna.
2. Delivered Invited lecture on “**Aquatic Medicinal Plants in Wetlands of Delhi, India,** in the National Seminar on Medicinal plants: Cultivation and marketing” during April 11-12, 2015 at Chas College, Bokaro.
3. Delivered an invited presentation on “Application of Vermifiltration and bacterivorous zooplankton enhances efficacy of waste water treatment” in National Symposium on Advances in Environment Sciences on February 27, 2015
4. Invited lecture on “In situ application of copepods as biocontrol agent of mosquito on February 26, 2015 at School of Environment and Sustainable Development, Central University of Gujarat, Gandhinagar, Gujarat.
5. Presented two papers (i) invited presentation on “Susceptibility of cyclopoid copepod (Mesocyclops sp) to protistan epibionts and copepod predation and (ii) poster presentation on “Demographic parameters of Acartia bilobata as a function of salinity and temperature” during 12th International Conference on Copepoda during July 14th to 18th, 2014, at Hanyang University, Seoul, Korea.
6. Delivered invited lecture on Water- management with special reference to Bihar during a daylong Seminar on “Bihar Aage kee Raah: with special reference to water management” on May 30th 2013 at AN Sinha Institute of Social Sciences, Patna.
7. Delivered Invited lecture and acted as Judge for the poster competition during International Conclave on Innovation in Engineering and Management (ICIEM-2013) conducted by the Birla Institute of Technology, Patna during 8-9 February 2013.
8. Delivered invited lecture on “Direct observation of the predation behavior of Mesocyclops thermocyclopoides preying on larval (fish, Artemia and mosquito larvae) prey and shaping aquatic biodiversity” also in the UGC sponsored National Seminar on “Biodiversity: Its conservation and sustainable development for human welfare organized by University Department of Zoology, Vinoba Bhave University, Hazaribag, Jharkhand & Zoological Society of India, April 7-9, 2012
9. Presented invited lecture on “Community structure of macrobenthic invertebrates in the River Ganga in Bihar, India” in Author’s symposium on Major River Systems in India, CIFRI, Barrakpore, Kolkata, India, April 22-23, 2012.
10. Acted as Resource person, and chaired a session in the Workshop on Diversity and Ecology of Freshwater Zooplankton in South East Asia, at the National Forest Park of Liuxihe, in Guangzhou, China during 3 - 7 July, 2011.

Dr. Pradhan Parth Sarthi :- 07

International

1. Ashu Mangain, S. K. Dash and **P. Parth Sarthi** “Characteristics of Eurasian snow depth with respect to Indian summer monsoon rainfall” (**International Journal of Meteorology and Atmospheric Physics**, Meteorol Atmos Phys., 2010, DOI 10.1007/s00703-010-0100-1, **Impact Factor: 0.921, ISSN: 0177-7971**)
2. Arun Rana, Cintia Bertacchi Uvo, Lars Bengtsson & **P. Parth Sarthi**, Trend Analysis for rainfall in Delhi and Mumbai, India (**International Journal of Climate Dynamics**, 2011, DOI 10.1007/s00382-011-1083-4, **Impact Factor: 3.843, ISSN: 0930-7575**)
3. **P. Parth Sarthi**, S. K. Dash & Ashu Mangain, “Possible Characteristics of Indian Summer Monsoon under Warmer Climate” (**International Journal of Global and Planetary Changes** , 2012, **Impact Factor: 3.7, ISSN: 0921-8181**)
4. **P. Parth Sarthi** & Ajeet Kr Singh, “Climatic study of available surface water in Bihar state of India” (**Geosciences** 2013, 3(2): 68-76 DOI: 10.5923/j.geo.20130302.05)
5. **P. Parth Sarthi**, Anubha Agrawal & A. Rana, “Possible Future Changes in Cyclonic Storms (CSs) in Bay of Bengal (BoB) India under Warmer Climate”, (**International Journal of Climatology**, June, 2014 **Impact Factor: 3.8**)
6. **P. Parth Sarthi**, Soumik Ghosh and Praveen Kumar, “Future Projection of Rainfall with the evaluation of model performance in Coupled Model Inter-comparison Project Phase 5 (CMIP5) (**International Journal of Global and Planetary Change**, doi: 10.1016/j.gloplacha.2015.03.005, 2015)
7. **P. Parth Sarthi**, Praveen Kumar and Soumik Ghosh, "Possible Future Rainfall over Gangetic Plain (GP) India in Multi Model Simulations of CMIP3 and CMIP5", (**Theoretical and Applied Climatology**, DOI: 10.1007/S00704-015-1447-5, 2015)

Book Chapters

1. **P. Parth Sarthi**, S. K. Dash & Ashu Mamagain “Changes in Surface Temperature and Snow over the Western Himalaya under doubling of Carbon Dioxide (CO₂)”, “**Challenges and Opportunities in Agrometeorology**” (Attri, S.D.; Rathore, L.S.; Sivakumar, M.V.K.; Dash, S.K. (Eds.) ISBN 978-3-642-19359-0, Springer Publication, 2011)

Invited Talks :-

1. “Global Warming Impact on Indian Summer Monsoon Rainfall”, International Workshop on Adaptation and Mitigation options for Tackling of Impacts of Climate Change on Water Resources, 14-15 March, 2011, ITM University, Gurgaon
2. “Science of weather and climate” for refresher course on Environmental Science: Challenges and Opportunities in 21st Century, 9th Sept, 2011, Department of Environmental Science, Science College, Patna, Bihar
3. "Climate Change Scenarios in Bihar", in Training Programme on 'Gender, Climate Change, Agriculture and Food Security,', October 5, 2012, Bihar Mahila Samakhya Training Centre, 2nd Floor, Khadi Gram Bhawan, Gandhi Maidan, Patna, organized by Alternative Futures, New Delhi
4. "Climate Change Impact on Monsoon Rainfall and Snow, Cyclonic Storms and Water Resources in India", 5th Bihar Science Conference, 16-18 November, 2013, Arvind Mahila College, Patna, Bihar



5. “Modelling of Climate Change”, Department of Science and Technology (Govt of India) funded SERC School on Science of Climate Change, Doon University, Dehradun, August, 2013
6. “Projection of Indian Summer Monsoon Rainfall”, Department of Science and Technology (Govt of India) funded SERC School on Science of Climate Change, Doon University, Dehradun, August, 2013
7. "Science of Weather and Climate" a refresher course in Environmental Science on “Sustainable Environment: A Healthy Life Support System”, 2nd Dec-22nd Dec, 2013 Department of Botany, Patna Science College, Patna University, Patna.
8. 'The Impacts of Climate Change in Bihar', State Consultation on SAPCC, Bihar, 14th Dec, 2013, Hotel Patliputra Ashok, Patna, Bihar, organized by PAIRVI, New Delhi
9. "Climate Change and its impact on ground water resources", on 20th Feb, 2015, Central Ground Water Board, Patna, Bihar

Papers presented in conferences/workshops/seminars

National

1. **P. Parth Sarthi** & S K Dash, “Characteristics of Surface Temperature and Snow Depth under Doubling of CO₂, Brain Storming meeting by DST on HIMALAYAN CLIMATE AND GLACIERS, IIT Delhi, 15-16 Feb 2010
2. Ashu Mangain, S. K. Dash and **P. Parth Sarthi**, “Changes in the extreme temperature events in India based on daily Gridded Data”, TROPMET 2010, 18-22 April, 2010, IMD Calcutta.
3. **P. Parth Sarthi**, “Global Warming Impact on Snow, Indian Summer Monsoon and Cyclonic Storms in India”, 4th Bihar Science Conference, 11-13 Feb, 2011, Muzzafarpur, Bihar
4. Praveen Kumar, **P. Parth Sarthi** and Soumik Ghosh, “Future Projection of Indian Summer Monsoon Rainfall (ISMR) over the State Bihar, India”, paper presentation in National Conference on Climate Change Social Vulnerability Assessment held during 19 – 20 February 2014 at Department of Forestry & Natural Resources, Hemawati Nandan Bahuguna Garhwal University (A Central University, Srinagar – Garhwal Srinagar-Garhwal
5. Soumik Ghosh, **P. Parth Sarthi** and Praveen Kumar, “Indian Summer Monsoon Rainfall (ISMR) in Historical and Piconrol experiment in Coupled Model Inter-comparison Project Phase 5 (CMIP5) data”, paper presentation in National Conference on Climate Change Social Vulnerability Assessment held during 19–20 February 2014 at Department of Forestry & Natural Resources, Hemawati Nandan Bahuguna Garhwal University (A Central University, Srinagar – Garhwal Srinagar-Garhwal



Dr. Rajesh Kumar Ranjan

Invited Talk

1. Mangrove Ecosystem : tracing source of organic matter. Refresher course in “Environmental Science: Challenges and opportunities in 21st Century”. Refresher course: Department of Botany, Patna Science College, Patna; 16 September, 2011.

Chaired Session in conference/seminar

1. **Chaired** two sessions in National Seminar on "Chemistry for Healthy Human Life" Sacred Heart College Chalakudy, Thrissur Kerala, India. , 29-30th January 2013.
2. **Co-chaired** the session “Ecological Assessment of Coastal Zones” in National conference on Mangrove Wetlands and Near Shore Marine Ecosystems from Sustainability Issue to Management and Restoration, Jawaharlal Nehru University, New Delhi, 05-06th March 2012.

Participation, Presentation and contribution to symposia

1. **Ranjan RK**, Routh J, Ramanathan AL., Klump JV 2013. Geochemical signals of organic matter in sediments of Pichavaram mangrove-estuarine complex: Implications of anthropogenic influence. *4th PAGES Open Science Meeting. The Past: A Compass for Future Earth*, 13-16 February 2013, Goa
2. **Ranjan, R.K.** 2013. Sources, pathways, and risks of chemical contaminants in aquatic environment and its implication to human health, in National Seminar on "Chemistry for Healthy Human Life" Sacred Heart College Chalakudy, Thrissur Kerala, India. , 29-30th January 2013.
3. **Ranjan, R.K.** 2013. Sedimentary organic matter dynamics in Pichavaram mangrove-estuarine complex: recent insights from stable isotopes and PAHs studies. National workshop on “Recent trends in Biogeochemistry”. Department of Earth Sciences, Annamalai University, Annamalainagar, Tamilnadu. 25th January 2013.
4. Kumar H, **Ranjan RK**, Yadav S, Kumar A, Ramanathan AL., 2012. Hydrogeochemistry of Gorakhpur district of Middle Gangetic plain, India. Indo – Australian Workshop on Arsenic. Jawaharlal Nehru University, New Delhi 03-04th October 2012.
5. **Ranjan RK**, Routh J, Ramanathan AL., Klump JV 2012. Impact of salinity on organic matter dynamics and ecological changes in mangrove ecosystem. National conference on Mangrove Wetlands and Near Shore Marine Ecosystems from Sustainability Issue to Management and Restoration, Jawaharlal Nehru University, New Delhi, 05-06th March 2012.
6. **Ranjan RK**, Routh J, Ramanathan AL. 2011. The impact of urbanization on tropical mangrove-estuarine ecosystem (Pichavaram, India): Evidence from PAHs distribution in sediments. National seminar on Environmental Pollution and Bioremediation. Jawaharlal Nehru University, New Delhi, 28-29th December 2011.



7. **Ranjan RK**, Routh J, Ramanathan AL., Klump JV 2011. A record of sedimentary organic matter in a tropical estuarine-mangrove ecosystem as traced by stable isotopes and biomarkers. National seminar on modern and palaeo sediments: implication to climate, water resources and environmental changes & XXVIII convention of Indian association of Sedimentologists. Jawaharlal Nehru University, New Delhi, 24-26th November 2011.
8. **Ranjan RK**, Routh J, Ramanathan AL., Klump JV 2011. Polycyclic Aromatic Hydrocarbons in the Pichavaram Mangrove-Estuarine Sediments, South-eastern, India. 25th International Meeting on Organic Geochemistry (IMOG) Interlaken, Switzerland (Poster Presentation, P-394) 18-23rd September 2011.
9. **Ranjan RK**, Routh J, Ramanathan, AL. 2010. Organic matter sources in the Pichavaram-estuarine mangrove sediments, south-eastern, India. ClimECO₂: Oceans, Marine Ecosystems, and Society facing Climate Change: a multidisciplinary approach. IUEM, Brest, France (Poster Presentation) 23-27th August 2010.

Dr. Namita Das Saha:

International 5,
National 2,
Proceedings 4

Training and Workshop attended:

1. Foundation Course for Agricultural Research service, NAARM, Hyderabad, 01/01/2014-31/03/2014.
2. International training workshop on Ecosystem approach to disaster risk reduction, 12-15 December, NIDM, New Delhi.

Seminars/conference participated:

1. International Conference on Agricultural and Horticultural Science. September 14-15, 2012, Hyderabad.
2. International Conference on Biodiversity, Livelihood and Climate Change in the Himalayas (ICBLCC 2010) December 12-14, 2010, Kathmandu, Nepal.
3. 5th International Nitrogen Conference, 3rd- 7th December, 2010, New Delhi, India
4. International conference on “Environmental knowledge for disaster risk management” (ekDRM), 10th -11th May, 2011, New Delhi, India.
5. National Conference on “Production of Quality Seeds and Planting Material – Health Management in Horticultural Crops”, March 11-14, 2010, New Delhi.

Poster paper presented:

1. Effect of GM crops on soil environment. Poster presented in National conference on production and quality seeds and planting material-health management in horticultural crops. 11-14 March, 2010, New Delhi.



2. Nitrogen content in sprouting broccoli (*Brassica oleracea* l. var. *italica* plenck) under graded application of boron and molybdenum in West Bengal. 5th International Nitrogen Conference, 3rd- 7th December, 2010, New Delhi, India.
3. Effect of Climate Change on Himalayan Agro-biodiversity. International Conference on Biodiversity, Livelihood and Climate Change in the Himalayas (ICBLCC2010), December 12-14, 2010, Kathmandu, Nepal.

Dr. Prashant:-

1. Invited as a speaker at IIT, Patna, Bihar
2. Prashant (2014), “Biomedical Waste Management: Issues and Concerns” In Workshop on Issues in solid waste management at Centre for energy and Environment , IIT, Patna, 11th October, 2014.

Dr. Ningombam Linthoingambi Devi:-

Conference /Workshops Presentation

International

- ❖ Presented poster on “Monitoring of organochlorine pesticides by using passive air sampling in atmosphere of Manipur, India” at the SETAC Asia/Pacific conference held on 4-7, 2010, at Marriott China hotel, Guangzhou, China.
- ❖ Invited for oral presentation on “Assessment of endosulfan contamination in soil: a case study of Manipur, India” at International conference on bioenergy, environment and sustainable technologies held on Jan 27-30, 2013 at Arunai engineering college, Tiruvannamalai, Tamilnadu, sponsor by Dept. of Biotechnology, Ministry of Science and Technology, Government of India.

National

- ❖ Presented poster presentation in ‘National symposium on current status and new horizons of ecological sciences and environmental biotechnology (ESEB-13) held on 1-3 March 2013.
- ❖ Attended 5th Science Conclave 2012 on 7-14th December 2012, organized by IIIT-Allahabad, sponsor by MHRD & DST.
- ❖ Presented a paper on “Assessment of PCBs in air and soil from Manipur, India” at National Conference on Issue and Challenge of River Ganga Basin Management held on between march 26-28,2012 organized by Center of Environmental Science and Technology, Banaras Hindu University, Varanasi.
- ❖ Participated a workshop on Recent trends in Space physics, Atmospheric physics and Astrophysics held at Dept. of Physics, Banaras Hindu University, Varanasi, India under UGC networking program during March 12-17, 2012.
- ❖ Attended short term course on “Remote Sensing and GIS” during March 16-18, 2012 organized by Department of Civil Engineering, Institute of Technology, Banaras Hindu University, Varanasi India.



Invited Talk

- ❖ “Persistent Organic Pollutants (POPs) in India”. Refresher course: Department of Botany, Patna Science College, Patna; September, 2013.

- * **Monographs**

Dr. Ningombam Linthoingambi Devi:- 02

- * **Chapters in Books**

Dr. Pradhan Parth Sarthi :- 02

Dr. Rajesh Kumar Ranjan :- 04

Dr. Ram Kumar: 03

Dr. Prashant :- 01

Dr. Ningombam Linthoingambi Devi :- 02

- * **Edited Books**

- * **Books with ISBN with details of publishers**

Dr. Ningombam Linthoingambi Devi :-

1) Yadav IC, Devi NL, Prasad AGD. 2011. Municipal Solid waste management in Mysore India: problems and prospects. LAMBERT ACADEMIC PUBLISHING GMBH & CO., GERMANY (ISBN: 978- 3844323610).

2) Devi NL, Yadav IC, Belagali SL. 2011. Quantitative and Qualitative Study of Paper Industry Effluent-a Case Study of South India paper Mill (SIPM). LAMBERT ACADEMIC PUBLISHING GMBH & CO., GERMANY (978-3-8433-6392-1).

- * **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**

- * **Citation Index – range / average :-**

Dr. Rajesh Kumar Ranjan : Scopus h-index: 6

Journal Name	SNIP 2014	IPP 2014	SJR 2014
Marine Chemistry	1.32	3.07	1.357
Organic Geochemistry	1.367	3.211	1.374
Journal of Sedimentary Research	1.172	1.911	1.047
Hydrobiologia	1.194	2.185	0.823



Applied Geochemistry	1.213	2.198	0.888
Environmental Earth Sciences	1.164	1.811	0.644
Arabian Journal of Geosciences	0.606	0.667	0.29

Dr. Ningombam Linthoingambi Devi :- 4.04 per item and 2.82 per year

- * **SNIP**
- * **SJR**
- * **Impact Factor – range / average ***
- h-index : Dr. Ningombam Linthoingambi Devi:- 04**

Sl. No.	Journal Name	Year	SJR	IPP	SNIP
1.	Chemosphere	2015			
2.	Environmental Science and Pollution research	2015			
3.	Polycyclic Aromatic Compounds				
4.	Journal of Environmental Science				
5.	Environmental Earth Sciences	2013	0.724	1.536	1.134
6.	Environmental Monitoring and Assessment	2013	0.685	1.727	1.328
7.	Frontiers of Earth Science	2013	0.256	0.6	0.466
8.	International Journal of Environmental Technology and Management	2013	0.158	0.32	0.257
9.	Journal of Environmental Sciences	2013	0.886	2.247	1.544
10.	Journal of Geochemical Exploration	2013	0.871	2.267	1.401
11.	Polish Journal of Environmental Studies	2013	0.231	0.597	0.531
12.	Reviews of Environmental Contamination and Toxicology	2013	1.931	4.297	1.723
13.	Science of the Total Environment	2013	1.530	3.582	1.730
14.	Polish Journal of Environmental Studies	2013	0.231	0.597	0.531

23) Details of patents and income generated : None

24) Areas of consultancy and income generated : None



25) Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : N.A.

26) Faculty serving in

Sl. No	Name of Faculty	
1	Dr. Ram Kumar	<p>Members</p> <ul style="list-style-type: none"> • Committee member of National Conference on “Aquatic Medicinal Plants in Wetlands of Delhi, India, in the National Seminar on Medicinal plants: Cultivation and marketing” during April 11-12, 2015 at Chas College, Bokaro. • Member of UGC sponsored National Seminar on “Biodiversity: its conservation and sustainable development for human welfare <i>organized by</i> University Department of Zoology, Vinoba Bhave University, Hazaribag, Jharkhand & Zoological Society of India, April 7-9, 2012 • Committee member of 20th ISCB International Conference (ISCBC- 2014) on “Chemistry and Medicinal Plants in Translational Medicine for Healthcare” organized by Department of Chemistry, University of Delhi and Indian Society of Chemist and Biologists (ISCB, Lucknow) at University of Delhi . • Member of Steering committee of International Conference on Copepoda, held at Hanyang University Korea July 2014 <p>Editorial assignment:</p> <ol style="list-style-type: none"> 1. Associate Editor, <i>Frontiers in Marine Science</i> (<u>Frontiers in Marine pollution</u>): Published by Frontiers Editorial Office: EPFL- Innovation Square, Building I CH – 1015 Lausanne, Switzerland <u>http://www.frontiersin.org/Marine_Pollution/editorialboard</u> 1. Member International Advisory Board of the e-Journal “International Journal of Applied Sciences and Management” published by <i>Waljat College of Applied Sciences (WCAS), Muscat; Oman.</i> <u>http://www.waljatcollege.edu.om/journal/editorialboard.html</u>
2	Dr. Pradhan Parth Sarthi:-	<p>Members</p> <ul style="list-style-type: none"> • Secretary, India Meteorological Society, Bihar • Steering Committee Member, Bihar State Action Plan on Climate Change, Govt of Bihar • Advisor, Bihar State Disaster Management Authority, Govt of Bihar



		<ul style="list-style-type: none"> • Indian Climate Research Network, CSE, New Delhi • Member of Mountain Research Initiatives (MRI), Switzerland, • Member of International Association of Hydrological Sciences, Canada • Member of the European Drought Centre, The Netherlands <p>Editorial Assignment</p> <ul style="list-style-type: none"> • International Journal of Research in Science & Technology (ISSN 2249-0604) • International Journal of Scientific & Engineering Research (ISSN 2229-5518) • Open Journal of Atmospheric and Climate Change • Open Journal of Environmental and Social Sciences • Journal of Earth System Science
3	Dr. Rajesh Kumar Ranjan:	<p>National committees -</p> <ul style="list-style-type: none"> • Member of Regional Empowered Committee, East Central Zone, Ranchi, Ministry of Environment, Forest and Climate Change (MOEF&CC), Government of India (January 2015-Contd).
4	Dr. Prasant	Member of Impartiality Panel, Carbon Check (India) Private Limited (Company engaged in Carbon Trade Business), New Delhi
5	Dr. Ningombam Linthoingambi Devi	<p>Editorial assignment:</p> <ul style="list-style-type: none"> • International Journal of Green Chemistry • International Journal of Environmental Chemistry • International Journal of Renewable Energy and Commercialization • Jacobs Journal of Hydrology • Journal of Environmental and Social Sciences • East African Journal of Science and Technology

27) Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Dr. Rajesh Kumar Ranjan:

- Completed 4 weeks orientation programme at Academic staff College, Patna University with A grade
- Completed 3 weeks Refresher Course in Environmental Studies at HRDC, Panjab University, Chandigarh with A grade

Dr. Prashant :

- Completed 4 weeks orientation programme at Academic staff College, Patna University with A grade (June 12, 2015- July 8, 2015)



Dr.Ningombam Linthoingambi Devi:

- Completed one month orientation programme at Academic staff collage.Manipur University, Manipur (1st July-30July,2015)

28) Student projects

- **percentage of students who have done in-house projects including inter-departmental projects**
- **percentage of students doing projects in collaboration with other universities / industry / institute :- 100%**, summer internship projects

29) Awards / recognitions received at the national and international level by

- **Faculty**

Dr. Pradhan Parth Sarthi:

- Secretary, India Meteorological Society, Bihar
- Steering Committee Member, Bihar State Action Plan on Climate Change
- Advisor, Bihar State Disaster Management Authority
- Member, Indian Climate Research Network, CSE,
- Member of International Association of Hydrological Sciences, Canada
- Member of the European Drought Centre, The Netherlands

Dr. Ram Kumar

- External Expert member of Board of Studies for Environmental Studies, Vinoba Bhave University, Hazaribagh, Jharkhand, India
- External Expert member of Board of Research Studies for Environmental Sciences, Magadh University, Bodh Gaya, Bihar
- External expert Member procurement of Lab equipment, Nalanda University, Rajgir

Dr. Rajesh Kumar Ranjan:

- Ministry of Earth Sciences (MOES), Government of India, 4th PAGES Open Science Meeting. The Past: A Compass for Future Earth, 13-16 February 2013, Goa, India.
- Department of Science and Technology (DST) Government of India travel grant for ClimECO2: Oceans, Marine Ecosystems, and Society facing Climate Change: a multidisciplinary approach. IUEM, Brest, France 23-27 August 2010.



Dr. Namita Das Saha

- Qualified Agricultural Research Service (ARS), ICAR in Environmental Sciences, 2013.

Dr. Ningombam Linthoingambi Devi :-

- Dr. D. S. Kothari Postdoctoral Fellowship Scheme (UGC-2012).
- DBT-Research Associateship, Department of Biotechnology, Ministry of Science and Technology, Govt. of India (2011).
- **Doctoral / post doctoral fellows**
- **Students**

SN	NAME OF STUDENT	ACHEIVEMENTS
1.	Diwakar Prakash	<ol style="list-style-type: none">1. Got 1st prize in University level painting competition on World Wetland Day (2nd Feb. 2012).2. Got the first prize for poster presentation on “Spatial heterogeneity of planktonic microorganisms and mesozooplankton along Patna to Barh stretch of River Ganga in Bihar” in National Conference on Aquatic Ecosystem and their Management (AEM): recent trends and future perspectives at Central University of South Bihar in 2014.
2.	Ruby Kumari	<ol style="list-style-type: none">1. Awarded as Young Scientist in UGC sponsored National Seminar on Prospects of Cultivation and Marketing of Medicinal Plants in Jharkhand, 11– 12 April 2015.

30) Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Dr. Ram Kumar

Organized the National Conference on “Aquatic Ecosystem and their management: Recent trends and future perspectives”, during 21-23 March 2014” at Centre for Environmental Sciences: Central University of Bihar, Patna, Bihar.

Dr. Pradhan Parth Sarthi

Organized Roundtable on “The Agony of Rivers: Floods in Bihar”, 3rd September, 2015 along with ICIMOD, Nepal and Mega Pyne Abhiyan



Dr. Rajesh Kumar Ranjan

Organizing secretary of National conference on “Aquatic Ecosystems and their Management: Recent trends and future perspective”(AEM 2014) Centre for Environmental Sciences; Central University of South Bihar, Patna 21st March to 23rd March 2014

31) Code of ethics for research followed by the departments: N.A.

32) Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Session	Selected		Pass percentage	
		Male	Female	Male	Female
MSc. Environmental Sc.	2010-12	10	8	10	8
	2011-13	12	09	9	8
	2012-14	13	06	11	05
	2013-15	08	11	05	11
	2014-16	09	12	-	-
	2015-17	03	17	-	-
Integrated M. Phil. Ph.D. Environmental Sc.	Jan 14 onwards	03	01	-	-
	Jan 15 onwards	01	-	-	-

33) Diversity of students

Name of the Programme (refer to question no. 4)		% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MSc Environmental Science	2014	0	100	0	0
	2015	0	95	05	0
Int. MPhil-PhD Environmental Science	2014	75	0	25	0
	2015	100	0	0	0



34) How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. :

Session	No of students qualified NET exam
2010-2012	8
2011-2013	5
2012-2014	6
2013-2015	2

35) Student progression :

Student progression	Percentage against enrolled
UG to PG	Not Applicable
PG to M.Phil.	05
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
Employed	
<input type="checkbox"/> Campus selection	Nil
<input type="checkbox"/> Other than campus recruitment	Nil
Entrepreneurs	

36) Diversity of staff

Percentage of faculty who are graduates	
of the same university	no
from other universities within the State	04
from universities from other States from	01
universities outside the country	no

37) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : Faculty joined CUSB after earning their doctoral award.

38) Present details of departmental infrastructural facilities with regard to

a. Library :- Yes



- b. **Internet facilities for staff and students :-** Yes
- c. **Total number of class rooms :-** 01 (One)
- d. **Class rooms with ICT facility :-** Yes
- e. **Students' laboratories :-** Yes
- f. **Research laboratories :-** Yes

39) List of doctoral, post-doctoral students and Research Associates :

c) from the host institution/university

Anshu Malika
Diwakar Prakash
Sunny Kumar
Archisman Barat

d) from other institutions/universities

Praveen Kumar

40) Number of post graduate students getting financial assistance from the university.

41) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. : Yes, Need assessment is done at the time of BoS meeting.

42) Does the department obtain feedback from

- a. **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? :** Yes, The Centre utilizes feedbacks during CC meeting and accordingly Board of Studies (BoS) meeting is proposed.
- b. **Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? :** Student's assessment on each course is done semester wise by the university. Shortcomings if pointed by students are discussed in the faculty meeting and rectified accordingly.
- c. **Alumni and employers on the programmes offered and how does the department utilize the feedback? :** NA

43) List the distinguished alumni of the department (maximum 10): NA

44) Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. :

- (i) Prof. T. R. Rao, ISSER, Mohali
- (ii) Prof. A. L. Ramnathan, Jawaharlal Nehru University, New Delhi



- (iii) Prof. Mihir Deb, Professor, Nalanda University, Ragir, Bihar
- (iv) Dr. Faiyaz A. Khudsar, Scientist, Yamuna Biodiversity Park, New Delhi
- (v) Dr. Rajiv K. Sinha, Senior Lecturer at School of Environmental Engineering, Griffith University, Brisbane, Australia (01.04.2012)
- (vi) Mr. Vijayanand, Head, Carbon Business, TUV-Sud, South Asia (23.04.2011)

45) List the teaching methods adopted by the faculty for different programmes.

- (i) Class room teaching
- (ii) Research paper presentation
- (iii) Seminar presentation
- (iv) Laboratory Assignment
- (v) Field visit
- (vi) Institutional visit
- (vii) Practical
- (viii) Group discussion
- (ix) Tutorials
- (x) Workshop etc.

46) How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? : Faculty meeting, BoS meeting after end semester and emergent meeting if required are called to monitor performance of students after internal assessment. Internal Evaluation of 50 points out 100 points

47) Highlight the participation of students and faculty in extension activities: Students are doing 2 credits summer internship, between 2nd and 3rd semester outside the host university, Industrial Consultancy.

48) Give details of “beyond syllabus scholarly activities” of the department:

The M.Sc. students, research scholars and faculty members of Centre for Environmental Studies are actively involved in the Environmental Awareness Campaign through River cruise from Patna to Mokama for community structure analyses, Eco club activity, Sanjay Gandhi Biological Garden, Patna, Yamuna Biodiversity Park, Delhi and at Sultanpur National Park Haryana also field tour to Valmikinagar, Bihar.

49) State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : NA

50) Briefly highlight the contributions of the department in generating new knowledge, basic or applied :



- Climate Change to Govt Officers of Bihar Government and others under Bihar State Action Plan on Climate Change
- Aquatic Ecology, Marine and Estuarine Ecology
- Vermi-composting
- Biogeochemistry

51) Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength: Faculty in diversify field of Environmental Science/Number of research projects are running

Weakness: More faculties is required/Regular vacancy of integrated M.Phil-Ph.D. in the centre/Expansion of laboratory

52) Future plans of the department.

Centre would be interested to develop Research and Development in the thrust areas of Centre for Environmental Sciences.

School of Mathematics, Statistics

And

Computer Science

**Department of
Mathematics**

**Department of
Statistics**

**Department of
Computer Science**



Evaluative Report of Department of Mathematics

Department of Mathematics

- 1) **Name of the Department:** Department of Mathematics
- 2) **Year of establishment:** 2010
- 3) **Is the Department part of a School/Faculty of the university? :**
Yes (School of Mathematics Statistics and Computer Science)
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :** B.Sc.- B.Ed. dual degree programme, M.Sc. and Integrated M.Phil-Ph.D programmes
- 5) **Interdisciplinary programmes and departments involved:** Open Courses offered for Human & Social Sciences Students
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc. :**
Not Applicable
- 7) **Details of programmes discontinued, if any, with reasons:** Not Applicable
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**
Semester System
- 9) **Participation of the department in the courses offered by other departments: The Department of Mathematics take the following courses offered by other departments:**
 - BIS 502 (Mathematics) (4 credits) – Department of Bioinformatics
 - CSC 504 (Discrete Mathematics) – Department of Computer Science
 - CSC 553 – Theory of Computation – Department of Computer Science
 - ECO 503 (Mathematical Methods for Economists) - Centre for Economic Studies and Policies
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	Nil	Nil
Associate Professors	02	Nil	Nil
Asst. Professors	04+02	04+02*	06

* 02 Assistant Professor (for B.Sc.-B.Ed. programme)



11) Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided/ guiding for the last 4 years
Dr. Rajesh Pratap Singh	PhD	Assistant Professor	Finite Fields and Cryptography	05 years on 1 st September, 2015	Nil
Dr. Vivek Kumar Jain	Ph.d D. Phil.	Assistant Professor	Group Theory	6.5 years on 1 st August 2015	Nil
Dr.Roushan Kumar	PhD	Assistant Professor	Partial differential equation, Generalized thermoelasticity	5.5 years on 14 th August, 2015	Nil
Dr.Jitendra Singh (On lien at Baba Saheb Bhimrao Ambedkar University)	PhD	Assistant Professor	Moving Boundary Problem, Fractional Calculus, Mathematical Modelling	3 years on August, 2015	Nil
Dr.Shubh Narayan Singh	PhD	Assistant Professor	Semigroup Theory; Automata Theory; Graph Theory	3 years on 24 th August, 2015	Nil
Dr Pankaj Mishra	PhD	Assistant Professor	Magneto hydrodynamics, Heat transport through fluids	02 years on 20 th August 2015	Nil

12) List of senior Visiting Fellows, adjunct faculty, emeritus professors:

Prof. B. G. Prasad, (Patna Science College), (as Board of Studies Members)

13) Percentage of classes taken by temporary faculty – programme-wise information:



Nil

14) Programme-wise Student Teacher Ratio:

M.Sc.- 6:1

M.Phil-Ph.D- 1:2

15) Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: One Administrative Staff (LDC)

16) Research thrust areas as recognized by major funding agencies: None

17) Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. :

(a) Dr. Vivek Kumar Jain, Principle Investigator of project of 6 Lakhs: **UGC-BSR Start-up grant entitled “Study of odd order Nilpotent group with class two”**. (No.F. 20-2(20)/2012(BSR)).

(b) Dr. Vivek Kumar Jain, Member of project **Indo-Russian DST-RFBR project grant DST/INT/RFBR/P-137**.

(c) Dr. Rajesh Pratap Singh, Principle Investigator of project of 6 Lakhs: UGC-BSR Start-up grant entitled **“Some problems on permutation polynomials and multivariate public key cryptography”** (No.F. 20-8(20)/2012(BSR)).

(d) Dr. Roushan Kumar, Principle Investigator of project of 6 Lakhs: UGC-BSR Start-up grant entitled **“Wave propagation in Generalized thermoelastic media”**(No.F. 20-7(20)/2012(BSR)).

(e) Dr. Jitendra Singh, Principle Investigator of project of 6 Lakhs: UGC-BSR Start-up grant entitled **“Moving boundary problem arising in Controlled Drug Delivery”**(No.F. 20-6(20)/2012(BSR)).

18) Inter-institutional collaborative projects and associated grants received:

a) **National collaboration:** None

b) **International collaboration:** Dr.Vivek Kumar Jain, Indo-Russian DST-RFBR project grant DST/INT/RFBR/P-137.

19) Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : None

20) Research facility / centre with

- state recognition
- National recognition
- international recognition

21) Special research laboratories sponsored by / created by industry or corporate bodies: None



22) Publications:

Dr. Rajesh Pratap Singh:- 02

1. Rajesh P Singh, Anupam Saikia, B. K. Sarma, Poly-dragon: an efficient multivariate public key cryptosystem, *Journal of Mathematical Cryptology*, 4(4), 2011.
2. Rajesh Pratap Singh (2012). "Permutation Polynomials and their Applications in Cryptography". A monograph published by Lambert Academic Publishing, Germany, ISBN: 978-3-8484-0611-1 (2012).

Dr. Jitendra Singh:- 04

1. Praveen Kumar Gupta, Jitendra Singh, K.N. Rai, A numerical study on heat transfer in tissues during hyperthermia, *Mathematical and Computer Modelling*, 57 (2013) 1018–1037, Impact Factor: (2.053), (ISSN: 0895-7177).
2. Praveen Kumar Gupta, Jitendra Singh, K.N. Rai, S.K. Rai, Solution of the heat transfer problem in tissues during hyperthermia by finite difference–decomposition method, *Applied Mathematics and Computation*, 219 (2013) 6882–6892, Impact Factor: (1.551), (ISSN: 0096-3003).
3. Jitendra Singh, Rajeev Kumar, An Analytical Study on Fractional Fokker-Planck Equation by Homotopy Analysis Transform Method. (Accepted in International conferences ICRAMSCS-2015 held in CUSB during 29- 31 May, 2015)
4. Jitendra Singh, Approximate solution for nonlinear oscillator with cubic and quintic nonlinearities. (Accepted in International conferences ICRAMSCS-2015 held in CUSB during 29- 31 May, 2015).

Dr. Vivek Kumar Jain :- 06

1. V.K. Jain & R.P. Shukla, "On the isomorphism classes of transversals-II" *Comm. Alg.* 39 (6) (2011), 2024-2036
2. V. K. Jain, Manoj K. Yadav, "On finite p -group whose all automorphisms are central" *Israel J. Math* **189** (1) (2012), 225-236.
3. V. K. Jain, Pradeep K Rai and Manoj K. Yadav, "On Finite p -groups with abelian automorphism group" *International Journal of Algebra and Computation*, 23, 1063-1077 (2013), DOI: 10.1142/S0218196713500161.
4. Vivek Kumar Jain, Sanjeev Bakshi, *Interrogating CGPA: In Search of the Missing Links—Suggested Alternatives*, Sage Open, 1-7, 2014.
5. Vivek Kumar Jain, On the Isomorphism Classes of Transversals III, *Journal of the Indian Math. Soc.* (to appear).



6. Vipul Kakkar, Vivek Kumar Jain, Solvable and Nilpotent Right loops, Demonstratio Mathematica (to appear).

Dr. Raushan Kumar:- 04

1. S. Mukhopadhyay, **Roushan kumar** and Rajesh Prasad, Comments on the article “On the propagation of harmonic plane waves under the two-temperature theory” [P. Puri, P.M. Jordan, Int. J. Eng. Sci. 44 (2006) 1113–1126], *International Journal of Engineering Science* International Journal of Engineering Science, 51 (2012) 344-347. (Impact Factor: 2.291).
2. **Roushan Kumar**, Anil Kumar, and S. Mukhopadhyay ,An investigation on thermoelastic interactions under two-temperature thermoelasticity with two relaxation parameters, *Mathematics and Mech. With Solids*, 1081286514536429 (Impact Factor: 0.860).
3. S. Mukhopadhyay, Shweta Kothari and **Roushan Kumar**, Dual phase-lag thermoelasticity, Encyclopedia of Thermal Stresses, (Spinger),pp 1003-1019 (2014)
4. Amit Kumar, and **Roushan kumar**, Domain of influence theorem for three phase lag model, *J. Thermal Stresses* (Accepted 2015) (Impact Factor: 1.169)

Dr. Pankaj Mishra:- 03

1. P. G. Siddheshwar, B. S. Bhadauria, **Pankaj Mishra** and Atul K Srivastava, Study of Heat transport by Stationary Magnetoconvection in a Newtonian Liquid Under Temperature or Gravity Modulation Using Ginzberg Landau Model, **Published in International Journal of Non-linear Mechanics, Elsevier.** 47(2012), 418-425.; *Impact factor 1.463*
2. R. B. Mishra, **P. Mishra**, Atul K Srivastava, Closed form solutions of second grade aligned MHD fluid flow having prescribed current density distribution. **Published in International Journal of Applied Mathematics and Mechanics** Vol 7(15),1-15, 2011., ISSN-0973-0184.
3. A. K. Srivastava, B. S. Bhadauria, **P. Mishra**, Sorret driven double diffusive magnetoconvection in couple stress liquid, MATEC, Wave of Conferences 1, 06008(2012).(Conference)

Dr. Shubh Narayan Singh:- 02

1. Shubh Narayan Singh and K.V. Krishna. *A Sufficient Condition for the Hanna Neumann property of submonoids of a free monoid*, **Semigroup Forum**, 86(3), 537-554, 2013.
2. Shubh Narayan Singh and K.V. Krishna. *The rank and Hanna Neumann property of some submonoids of a Free Monoid*, **Annales Mathematicae et Informaticae.** 40, 113-123, 2012.



- * Number of papers published in peer reviewed journals (national / international) = 21
 - * Monographs – 01 (**Dr. Rajesh Pratap Singh, Permutation polynomials and their applications in cryptography, LAP Lambert Academic Publishing, 2012**)
 - * Chapters in Books- 01
 - * Edited Books
 - * Books with ISBN with details of publishers
 - * Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)
 - * Citation Index – range / average
 - * SNIP
 - * SJR
 - * Impact Factor – range (0 –2.291)
 - * h-index
- 23) Details of patents and income generated : None**
- 24) Areas of consultancy and income generated: None**
- 25) Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad:**
- (a) Dr.Vivek Kumar Jain, visited HRI, Allahabad July 4, 2011 to July 16, 2011
 - (b) Dr.Vivek Kumar Jain visited Sobolov Institute of Mathematics, Novosibirsk Russia, July 20, 2014 to July 30, 2014.
- 26) Faculty serving in**
- a) National committees b) International committees c) Editorial Boards d) any other (please specify) - None
- 27) Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). : - Orientation and refresher programmes for faculty**
- 28) Student projects**
- percentage of students who have done in-house projects including inter-departmental projects – None
 - percentage of students doing projects in collaboration with other universities / industry / institute – None
- 29) Awards / recognitions received at the national and international level by**



- **Faculty** – None
- **Doctoral / post-doctoral fellows** – None
- **Students** – None

30) Seminars/ Conferences/Workshops organized and the source of funding (national/ International) with details of outstanding participants, if any.

- Summer School 2011, Central University of Bihar, Patna, May, 30, 2011 – June, 11, 2011.
- International Conference on Recent Advances in Mathematics, Statistics and Computer Science, May 29 – 31, 2015 (Funded by CUSB, DST, Government of India, New Delhi, Minitab, CUBIC Computing (P) Ltd. Bangalore, Nalanda Open University etc.)

31) Code of ethics for research followed by the departments: Follow University rules and regulation

32) Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Session	Selected		Pass percentage	
		Male	Female	Male	Female
M.Sc (Mathematics)	2010-12	04	01	50%	100%
	2011-13	05	0	60%	
	2012-14	07	05	57.2%	100%
	2013-15	14	06	50%	83%
	2014-16	17	02		
	2015-17	15	11		
Integrated M.Phil-PhD	2014 onwards	03	00		

33) Diversity of students :

Name of the Programme (refer to question no. 4)		% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.Sc (Mathematics)	2014	0	82	18	0
	2015	0	70	30	0
Integrated M.Phil-PhD (Mathematics)	2014	33	0	67	0
	2015	0	0	0	0

34) How many students have cleared Civil Services and Defense Services



examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

S. No	Name	Session	Achievements	All India Ranking	Category
1	Mr. Ujwal Pratap	2013-15	GATE 2015	275	General
2	Mr. Sachindra Mohan Mishra	2013-15	GATE 2015	284	General
3	Ms. Sweta Srivastava	2013-15	GATE 2015	298	General
4	Ms. Anuradha Sinha	2013-15	GATE 2015	652	General
5	Mr. Mritunjay Kumar Singh	M.Phil - PhD	GATE 2015	1020	OBC
6	Mr. Rajeev Kumar	M.Phil - PhD	GATE 2015	790	SC
7	Mr. Sameer Nandan	2010- 2012	Bank PO		OBC

35) Student progression:

Student progression	Percentage against enrolled
UG to PG	Not Applicable
PG to M.Phil.	Nil
PG to Ph.D.	2010-2012 - 20% 2011-2013 - 0% 2012- 2014- 8.4% 2013- 2015 – 5%
Ph.D. to Post-Doctoral	Not Applicable
Employed	
<input type="checkbox"/> Campus selection	2010-2012 - 0% 2011-2013 - 0% 2012- 2014- 0% 2013- 2015 – 10%
Other than campus recruitment	Nil
Entrepreneurs	Nil



36) Diversity of staff

Percentage of faculty who are graduates of the same university	0%
from other universities within the State	16.66%
from universities from other States	83.44%
universities outside the country	0%

37) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period – 01

38) Present details of departmental infrastructural facilities with regard to

- Library : No
- Internet facilities for staff and students- Yes
- Total number of class rooms:-01
- Class rooms with ICT facility : Yes
- Students' laboratories : One computer Lab
- Research laboratories : Not required

39) List of doctoral, post-doctoral students and Research Associates

- from the host institution/University : **None**
- from other institutions/universities : **None**

40) Number of post graduate students getting financial assistance from the university: CUSBET-2015

- Vaibhav Shekhar, Session-2015-17, MSc Mathematics
Semester Topper
- Avinita Gautam, Session-2014-16, MSc Mathematics

Second Semester (January – June 2015, Session 2014-16)

S No	Name of Students	Cate gory	Programm e of Study	GPA in 1 st Semes ter	Percenta ge of Scholars hip	Remark
1	Sujeet Kumar 1402112018	OBC	Mathematic s-2 nd Semester	7.8	100 %	Awarded



Attendance Based Merit Scholarship:

Sl	Programme	Name of Student	GPA in Semester-1 st and 3 rd	Attendance (July to December 2014)	Remarks
2013-15					
1	Mathematics -4 th Semester	Supriya Rani 1302112017	5.6	100	Awarded
2014-16					
2	Mathematics -2 nd Semester	Dhirendra Kumar 1402112007	5.6	100	Awarded
3	Mathematics -2 nd Semester	Avinita Gautam 1402112003	8.2	100	Awarded
4	Mathematics -2 nd Semester	Sudhakar Mishra 1402112017	3.8	100	Awarded
5	Mathematics -2 nd Semester	Ayush Udeep 1402112004	8.2	100	Awarded
6	Mathematics -2 nd Semester	Sujeet Kumar 1402112018	7.8	100	Awarded

First Semester (July – December 2014, Session 2014-16)

Sl. No.	Name of Students	Category	Enrolment No.	Programme of Study	Percentage of Scholarship	Amount to be paid
1	Sujeet Kumar	OBC	CUB1402112018	M.Sc. Mathematics - 1 st Sem	100	2500/-

41) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. Yes, through Board of Studies meeting involving experts and Professors

42) Does the department obtain feedback from?

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? : Yes, through Board of examiners and Board of Studies meetings. Feedback is used for upgrading the syllabus and teaching methodology.
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? : Yes, through Course Assessment Evaluation, Feedback is used for upgrading teaching and learning strategies.



- c. **Alumni and employers on the programmes offered and how does the department utilize the feedback?** : Yes, through alumni meeting.
- 43) **List the distinguished alumni of the department (maximum 10):** None
- 44) **Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.** None
- 45) **List the teaching methods adopted by the faculty for different programmes:**
Lectures followed by discussion and interaction with students, Continuous Evaluation of students through class tests, assignments and presentations.
- 46) **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:** Through continuous evaluation of students, Students counselling for higher education, Research and other achievement.
- 47) **Highlight the participation of students and faculty in extension activities:**
Faculty attend conferences, Seminars etc.
- 48) **Give details of “beyond syllabus scholarly activities” of the department :** Students participate in various activities such as MTTs (Mathematics Training and talent search programme funded by National Board of Higher Mathematics), Summer internship at IIT(S), IISER(S), NISER and HRI.
- 49) **State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. :** NO
- 50) **Briefly highlight the contributions of the department in generating new knowledge, basic or applied :** Faculty are involved in Research Activities and also train students for basic and applied research.
- 51) **Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :**

Strength : Faculty from Reputed Indian Institutions such as IITS, Central Universities., Infrastructure and ICT facilities, Laboratory and Library etc.

Weakness: NO Faculty at Professor and Associate Professor level, Lack of Class rooms.

Opportunities : Quality Research Facilities and quality higher education for prospective Students.

Challenges : Industrial collaboration and placements in R & D and in other sectors



52) Future plans of the department.

1. Industrial collaboration
2. Developing Department as Centre for Advanced Studies
3. To develop Departmental Library
4. To organise outreach programme in Mathematics
5. To undertake Departmental Projects



Evaluative Report of Department of Computer Science

Department of Computer Science

- 1) **Name of the Department** - Department of Computer Science
- 2) **Year of establishment** - 2010
- 3) **Is the Department part of a School/Faculty of the university?** - Yes
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)** - M.Sc., M.Tech., Integrated MPhil- Ph.D.
- 5) **Interdisciplinary programmes and departments involved** - NIL
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc.** -NIL
- 7) **Details of programmes discontinued, if any, with reasons** - NIL
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System** – Semester with Choice Based Credit System
- 9) **Participation of the department in the courses offered by other departments** – Students used to opt elective courses offered by Mathematics, Statistics and Bio-Informatics Departments.
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)** (M.Sc. Computer Science – 7 Positions and M.Tech Computer Science – 7 Positions)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	02	Nil	Nil
Associate Professor	04	01	01
Assistant Professor	08	04	04
Others(Contractual)	-	01	01

- 11) **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil./M.Tech students guided/ guiding for the last 4 years
Dr. R. Rajesh	Ph.D.	Associate Professor	Image Processing, Soft Computing	10 years teaching + 4 years research experience	Ph.D (completed)- 5, Ph.D (ongoing)-5, M.Tech. (completed) -3, M.Tech(ongoing)- 3,



					M.Phil-5
Dr.PrabhatR anjan	Ph.D.	Assistant Professor	Software Engineering	14 years of teaching and research experience	Ph.D(ongoing)- 1, M.Tech.(Completed) -10, M.Tech (ongoing) - 3
Mr. Nemi Chandra Rathore	M.Tech, Ph.D.(Pursui ng)	Assistant Professor	Privacy and Security in Online Social Networks	6 years	M.Tech.(Completed) -4, M.Tech (ongoing) - 3
Mrs. Smita Roy	M.Tech, Ph.D.(Pursui ng)	Assistant Professor	Data Mining	8+ years	M.Tech.(Completed) -3
Mr. Jainath Yadav	M.Tech, Ph.D.(Pursui ng)	Assistant Professor	Speech Processing	2 years	M.Tech.(Completed) -4, M.Tech (ongoing) - 3
Mr. Tarok Pramanik	M.Tech	Asst. Prof. (Contract)		5+ years	

12) List of senior Visiting Fellows, adjunct faculty, emeritus professors - NIL

13) Percentage of classes taken by temporary faculty – programme-wise information

M.Sc. – 10%

M.Tech - Nil

M.Phil-Ph.D - Nil

14) Programme-wise Student Teacher Ratio – M.Sc. (Student : Teacher = 9:1) , M.Tech (Student : Teacher = 7:1), Integrated MPhil- Ph.D (Student : Teacher = 1:1).

15) Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual –

	Sanctioned	Filled	Actual
Technical Staff	Nil	Nil	Nil
Administrative Staff	Nil	Nil	Nil

16) Research thrust areas as recognized by major funding agencies - NIL

17) Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. – NIL



18) Inter-institutional collaborative projects and associated grants received - NIL

- a) National collaboration b) International collaboration

19) Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. - NIL

20) Research facility / centre with - NIL

- state recognition
- national recognition
- international recognition

21) Special research laboratories sponsored by / created by industry or corporate bodies - NIL

22) Publications:

Dr. R. Rajesh:- 17

1. M.S. Sreekanth, R. Rajesh, J. Satheeshkumar, “*Extreme Learning Machine for the Classification of Rainfall and Thunderstorm*”, Journal of Applied Sciences, Vol. 15, No. 1, pp. 153-156, 2015
2. Shikha Agarwal, R. Rajesh, “*Difficulty in handling high dimensional data – please stand up*”, *International Journal of Research in Engineering and Technology (IJRET)*, eISSN : 2319-1163, Vol. 3, Special Issue 14, Nov. 2014 (SMART 2014), pp. 101-104
3. M.S. Sreekanth, R. Rajesh, J. Satheeshkumar, “*Classification Of Rainfall And Thunderstorm Using Evolutionary Extreme Learning Machine*”, *International Journal of Applied Engineering Research (IJAER)*, ISSN 0973-4562, Volume 9, Number 20 (2014) Special Issues, pp.4525-4527 - Scopus indexed
4. V. Arulmozhi, R. Rajesh, “*Neural network based classification of acute toxicity of phthalate esters to fathead minnow*,” *Journal of Chemoinformatics*, 5 (Suppl 1), pp. 47, 2013 (Impact factor – 3.42)
5. V. Arulmozhi, R. Rajesh, “*Predicting the protein localization sites using artificial neural networks*,” *Journal of Chemoinformatics*, 5 (suppl 1), pp. 46, 2013 (Impact factor – 3.42)
6. V. Arulmozhi, R. Rajesh, “*Neural Networks for Chemoinformatics – A Survey*”, *International Journal on Advances in Computing and Communication Technologies (ISSN 2321-3078)*, vol. 1, issue 1, pp. 53-57, 2013 (Proc. of ICACCT, 19-20 Jan. 2013, Pattaya, Thailand, ISBN: 9788175371149)



7. R. Rajesh, V. Arulmozhi, "Fuzzy Logic for Chemoinformatics – A Review," *Journal of Theoretical and Applied Information Technology*, vol. 47, no. 1, pp. 86-92, 2013.
8. R.Rajeswari, R. Rajesh, "Fuzzy quantization of bandlet coefficients for image compression", *Advances in Applied Science Research*, ISSN: 0976-8610, 2013, 4(2): 140-146.
9. Alok Sharma, R. Rajesh, Prabhat Ranjan, "Neural Network in forecasting : A Review", *Computer Science and Engineering – Recent Trends*, Narosa Publishing House, 2015. (ISBN 978-81-8487-391-7)
10. V. Arulmozhi, R. Rajesh, "Impact of chemoinformatics on the drug discovery process," *Computer Science and Engineering – Recent Trends*, Narosa Publishing House, 2015. (ISBN 978-81-8487-391-7)
11. Rahul Kumar Singh, Kinshuk Kamal, R. Rajesh, "A Survey of Image Processing Applications and Public Image/Video Databases," *Computer Networks and Security*, K.R. Venugopal, S.C. Lingareddy, Eds., Elsevier Science and Technology Publications, (Proc. of International Conference on Communication and Computing, ICC 2014, Bangalore, 12-14 June 2014), ISBN 9789351072447, pp. 577-583, 2014
12. Jyoti Kumari, R. Rajesh, K.M. Pooja, "Facial expression recognition: A survey," *Procedia Computer Science*, 58, pp. 486-491, 2015 (Proc. of the second international symposium on computer vision and the internet, SCMS, Kerala, 10-13 August 2015 held in conjunction with ICACCI 2015)
13. N.K. Ragesh, R. Rajesh, "Speeding up of pedestrian detection by smart ROI", *Research Advances in Cloud Computing and Computing Networks*, Eds: Dr. S. Sarala, Dr. M. Sunderesan, Dr. R. Porkodi, Sri Sakthi Press, ISBN: 9788192330600 [Proc. of the International Symposium on Research Innovation for Quality Improvement in Higher Education (RIFIHE-2014), 10-11 October 2014, Bharathiar University, Coimbatore]
14. R. Rajesh, "Evolutionary Computation with Variable length Chromosome for the Design of Fuzzy Logic System", [WCSET-2014009](#), Proceedings of the 3rd World Conference on Applied Sciences, Engineering and Technology (WCSET-2014), ISBN 13: 978-81-930222-0-7, Hotel Manang, Thamel, Kathmandu, NEPAL, 27-29 September 2014.
15. A.R. Anil, R. Rajesh, "A Note on Speckle Noise Removal Using Mathematical Morphology in Ultrasound Imaging", [WCSET-2014108](#), Proceedings of the 3rd World Conference on Applied Sciences, Engineering and Technology (WCSET-2014), ISBN 13: 978-81-930222-0-7, Hotel Manang, Thamel, Kathmandu, NEPAL, 27-29 September 2014. [Also in *International Journal of Advanced Computer Communications and Control*, vol. 2, no. 4, October 2014]
16. N. K. Ragesh, R. Rajesh, "Avoiding multiple overlapped detection of single pedestrian", [WCSET-2014109](#), Proceedings of the 3rd World Conference on Applied Sciences, Engineering and Technology (WCSET-2014), ISBN 13: 978-81-



930222-0-7, Hotel Manang, Thamel, Kathmandu, NEPAL, 27-29 September 2014.
[Also in International Journal of Advanced Computer Communications and Control, vol. 2, no. 4, October 2014]

17. C. Thilagavathy, R. Rajesh, “Rough Set Theory and its Applications in Image Processing – A Short Review”, [WCSET-2014111](#), Proceedings of the 3rd World Conference on Applied Sciences, Engineering and Technology (WCSET-2014), ISBN 13: 978-81-930222-0-7, Hotel Manang, Thamel, Kathmandu, NEPAL, 27-29 September 2014.

Dr. Prabhat Ranjan:- 03

1. P. Ranjan, Aditya Kumar and Smita Roy “**Dimensionality reduction for high dimensional data: A CFS and Chi Square approach**”, ACM Proceedings for International Conference Information and Communication Technology for Competitive Strategies (ICTCS 2014), ISBN 978-1-4503-3216-3, November 14 - 16 2014, Udaipur, Rajasthan, India.
2. P. Ranjan, Alok Sharma and R. Rajesh “**Neural Network in Forecasting – A Review**”, International Conference on Recent Trends in Computer Science and Engineering (ICRTCSE), Technical sponsored by IEEE Kolkata Section, ISBN : 978-81-8487-391-7, Feb 8- 9, 2014, Patna.
3. P. Ranjan, Aditya Kumar and Smita Roy “**A Survey of Feature Selection Approaches for Dimensionality Reduction**”, International Conference on Recent Trends in Computer Science and Engineering (ICRTCSE), Technical sponsored by IEEE Kolkata Section, ISBN : 978-81-8487-391-7, Feb 8- 9, 2014, Patna.

Mrs. Simta Roy:- 03

1. Aditya Kumar, Smita Roy, Prabhat Ranjan , February 08th-09th, 2014, “A Survey of Feature Selection Approaches for Dimensionality Reduction” , “International Conference on Recent Trends in Computer Science & Engineering (ICRTCSE-2014)” , Department of Computer Science, Central University of Bihar.
2. Rashmi Bikash Nayak, Smita Roy, February 08th-09th, 2014 , “Data Mining in Healthcare Arena : A survey”; “International Conference on Recent Trends in Computer Science & Engineering (ICRTCSE-2014)” , Department of Computer Science, Central University of Bihar.
3. Aditya Kumar, Smita Roy, Prabhat Ranjan, 2014, “ Dimensionality reduction for high dimensional data : A CFS and Chi Square approach”, [ICTCS '14](#) International Conference on Information and Communication Technology for Competitive Strategies, Udaipur, Rajasthan, India, November 14 - 16, 2014, [ACM](#) New York, NY, USA ©2014, ISBN: 978-1-4503-3216-3, Article No.: 67



Mr. Nemi Chandra Rathore:- 06

1. **Nemi Chandra Rathore**, Priyank Gour, Bhagwan Sahay Meena, Vishal Jain & Neeraj Jain, Improved Clustering Protocol for Delay Minimization,,International Journal of Computer Networking, Wireless and Mobile Communications, ISSN(P): 2250-1568; ISSN(E): 2278 – 9448 , Vol. 3, Issue 5, Dec 2013, 41-48 .
2. Shashi Kant Tiwari, **Nemi Chandra Rathore**, Survey on VANET Privacy Preserving Protocols, In preceeding In preceeding Computer Science and Engineering, Recent Trends, International Conference on Recent Trends in Computer Science & Engineering, Feb – 2014. Narosa Publication, ISBN: 978-81-8487-391-7, pp, 91-100, Year : 2015.
3. Divya Kumari, **Nemi Chandra Rathore**, Inference Attacks in OSNs: A Survey,, In preceeding Computer Science and Engineering, Recent Trends, International Conference on Recent Trends in Computer Science & Engineering, Feb-2014. Narosa Publication,ISBN: 978-81-8487-391-7, pp, 80-90, Year : 2015.
4. **Nemi Chandra Rathore**, Somanath Tripathy, Joydeep Chandra, Predicting User Visibility in Online Social Networks Using Local Connectivity Properties, Distributed Computing and Internet Technology, 11th International Conference, ICDCIT 2015, Bhubaneswar, India, Volume 8956, Lecture Notes in Computer Science pp 419-430., February 5-8, 2015.
5. Ashish Kumar, **Nemi Chandra Rathore**, Improving Attribute Inference attack using Link Prediction in Online Social Networks, In proceeding of International Conference on Recent Advances in Mathematics, Statistics and Computer Science, 29 – 31 May, 2015, World Scientific Publishing Co. Pt. Ltd., Singapore, ISBN: 978–981–4649–16–6.
6. **Nemi Chandra Rathore**, Prashant Shaw and Somanath Tripathy. Collaborative Access Control Mechanism for Online Social Networks, 12th International Conference, ICDCIT 2016, Bhubaneswar, India (Accepted).

Mr. Jainath Yadav:- 11

1. Jainath Yadav, K. Sreenivasa Rao , “Prosodic Mapping Using Neural Networks for Emotion Conversion in Hindi Language”, Circuit System and Signal Processing, pp. 1-24, April 2015.
2. Randheer Bagi, Jainath Yadav and K. Rao, “Improved Recognition Rate of Language Identification System in Noisy Environment”, International Conference on Contemporary Computing, 20-22 Aug. 2015, Noida, India
3. Randheer Bagi and Jainath Yadav, “Performance Degradation of Language Identification in Noisy Environment”,International Conference on Recent Advances in Mathematics, Statistics and Computer Science, Patna, 31 May, 2015.



4. Manish Kumar and Jainath Yadav, “Speech Emotion Recognition Using Vowel Onset and Offset Points”, International Conference on Recent Advances in Mathematics, Statistics and Computer Science, Patna, 31 May, 2015.
5. Jainath Yadav, Anshu Kumari and K. Sreenivasa Rao , “Emotion Recognition Using LP Residual at Sub-segmental Level, Segmental Level and Supra-segmental Level”, International Conference on Communication, Information and Computing Technology, 15-17 Jan. 2015, Mumbai, India.
6. Jainath Yadav, K. Sreenivasa Rao “Generation of emotional speech by prosody imposition on Sentence, Word and Syllable level fragments of neutral speech”, International Conference on Cognitive Computing and Information Processing, 3-4 March, Noida, India.
7. Manish Kumar and Jainath Yadav, “Emotion Recognition From Speech Using Glottal Pulse Parameter”, International Conference on Emerging Trends of Engineering, Science, Management and Its Applications, 01 March 2015, JNU New Delhi.
8. Ravi Kumar, Jainath Yadav and K Sreenivasa Rao, " Emotional-speech synthesis from neutral-speech using prosody imposition", International Conference on Recent Trends in Computer Science and Engineering (ICRTCSE3-2014), Patna, India.
9. Piyush Kumar P Singh, Manjunath K E, R Ravi Kiran, Jainath Yadav and K. Sreenivasa Rao, “Indexing and Retrieval of Speech Documents”, International Conference in Advanced Computing, Networking and Informatics (ICACNI) 2014 held in Kolkata, India, 24th-26th June, 2014
10. Parakrant Sarkar, Arijul Haque, Arup Kumar Dutta, Gurunath Reddy M, Harikrishna D M, Prasenjit Dhara, Rashmi Verma, Narendra N P, Sunil Kr. S B, Jainath Yadav, K. Sreenivasa Rao “Designing Prosody Rule-set for Converting Neutral TTS Speech to Storytelling Style Speech for Indian Languages: Bengali, Hindi and Telugu”, International Conference on Contemporary Computing, 8-10 Aug. 2014, Noida, India.
11. Jainath Yadav and K. S. Rao, "Analysis of Detection of Vowel Offset Point for Coded Speech", International Conference on Contemporary Computing (IC3-2013), Noida, India

Mr. Tarok Pramanik:- 01

1. Arup Kumar Pal, TarokPramanik,“Design of an Edge Detection based Image Steganography with High Embedding Capacity”, QSHINE 2013, LNICST 115, pp. 794-800, 2013.

- * Number of papers published in peer reviewed journals (national/international) – 25
- * Number of papers published in conferences (national / international) – 41
- * Monographs - Nil



- * **Chapters in Books** - 6
- * **Edited Books** – 2
- * **Books with ISBN with details of publishers** – I) Computer Science and Engineering – Recent Trends. R. Rajesh, PrabhatRanjan (Editors). Narosa Publishing House. ISBN 978-81-8487-391-7. (Proceedings of the International Conference on Recent Trends on Computer Science and Engineering held during Feb. 8-9, 2014).
- * **Number listed in International Database** (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) - 35
- * **Citation Index (average)** - 1
- * **SNIP**
- * **SJR**
- * **Impact Factor** – average – 0.085
- * **h-index** – 2 (average)

23) **Details of patents and income generated** - NIL

24) **Areas of consultancy and income generated** - NIL

25) **Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad** - NIL

26) **Faculty serving in**

a) **National committees** b) **International committees** c) **Editorial Boards** d) **any other (please specify)** –

i. **Dr. R. Rajesh** -

- a. IEEE Member (41600337)
- b. IEEE Computational Intelligence Society Member
- c. Life member of Systems Society of India, (LM 27064), www.sysi.org
- d. Member of International Association of Engineers (IAENG)
- e. Life member of Computer Society of India (00173870)

ii. **Dr. Prabhat Ranjan** –

- a. Member IEEE since 2007 (M. No : 80612223)
- b. Assistant Programme Incharge, IGNOU, MNNIT Allahabad from 01.01.2009 to 13.02.13.
- c. Associate NCC Officer (A.N.O.), MNNIT Allahabad from 24.09.2012 to 13.02.13
- d. Dy./Asstt. Examination Superintendent in various examinations like AIEEE, DOEACC, IGNOU MNNIT Allahabad.



- iii. **Mr. Nemi Chandra Rathore** – Member IEEE since 2014
- iv. **Mrs. Smita Roy** - Member IEEE since 2014
- v. **Mr. JainathYadav** - Member IEEE since 2011
- vi. **Mr. TarokPramanik** –
 - a. Institute of Electrical and Electronics Engineers (IEEE)
 - b. International Association of Engineers (IAENG)
 - c. Computer Science Teachers Association (CSTA)
 - d. International Association of Computer Science and Information Technology (IACSIT)

27) Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). –

University recommends the faculty for participating in the Refresher / Orientation programs as per the requirement of UGC. The Dept. has organized a faculty development program on Latex with the support of IIT Bombay Spoken Tutorial Project on 10th, Sept.,2013.

28) Student projects

- percentage of students who have done in-house projects including inter-departmental projects – M.Tech. Thesis (100%)
- percentage of students doing projects in collaboration with other universities/ industry / institute – M.Sc. (100%)

29) Awards / recognitions received at the national and international level by

- Faculty - Nil
- Doctoral / post doctoral fellows - 1 Ph.D. scholar received CSIR-SRF
- Students – 4 students qualified NET examination and 39 students qualified GATE examination.

30) Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any. –

- i. International Conference on Recent Trends in Computer Science and Engineering, 2014.
- ii. 4 days EDP workshop by NIESBUD (16-19 March,2013).
- iii. Conducted FOSS workshop on PHP for M.Sc. Computer Science and Bio-Informatics (20th April,2013).
- iv. Workshop on understanding the needs and emerging trends in industries and research, organized in association with AstricSolutions .
- v. Seminar on “JAVA, J2EE and Web Technologies” by Vikash Kr. Tiwary, Software Engineer/Analyst, Accenture Tech., Bangalore (10th March, 2015).
- vi. Seminar on “Emerging Technologies impacting Business across the globe and how Bihar can leverage US resources in education, ICT innovation” by

Mr. Alak Verma, Director, Product Management, Oracle, USA (28th April, 2015).

31) Code of ethics for research followed by the departments

The research in the department is done on the basis of international standards. Research scholars follow international journals indexed in SCI. Plagiarism is discouraged by all ways.

32) Student profile programme-wise:

Name of the Programme	Session	Selected		Pass percentage	
		Male	Female	Male	Female
M.Sc.		60	23	42 (70%)	22 (95.65%)
M.Tech		41	10	35 (85.36%)	09 (90%)
Integrated M. Phil. Ph.D.		01	01	01 (100%)	01 (100%)

33) Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of Students from other countries
M.Sc.	0%	97.6%	2.4%	0%
M.Tech	14%			0%
Integrated M.Phil.- Ph.D.	0%	0%	100%	0%

34) How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Name of competitive examination	Number of students cleared
Civil Services and Defense Services	NIL
NET	4
SET	NIL
GATE	39

35) Student progression

Student progression	Percentage against enrolled
UG to PG	NIL
PG to PG (M.Tech)	8



PG to M. Phil.	NIL
PG to Ph.D.	NIL
Ph.D to Post-Doctoral	NIL
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than Campus selection	
Entrepreneurs	

36) Diversity of staff

Percentage of faculty who are graduates	
of the same university	NIL
from other universities within the State	NIL
from universities from other States	100%
From universities outside the country	NIL

37) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period - NIL

38) Present details of departmental infrastructural facilities with regard to

- a) **Library** – Central library
- b) **Internet facilities for staff and students** - All computers are connected with 100 mbps internet connectivity.
- c) **Total number of class rooms** - 2
- d) **Class rooms with ICT facility** - 2
- e) **Students' laboratories** - 1
- f) **Research laboratories**- 1

39) List of doctoral, post-doctoral students and Research Associates

- a) **from the host institution/University** –
(I) SikhaAggrawal (Ph.D Scholar)
(II) Sushant Kumar (Ph.D Scholar)
- b) **from other institutions/universities** - NIL

40) Number of post graduate students getting financial assistance from the university.

M.Sc.	Merit Scholarship (Semester topper)	16 students
M.Sc.	Merit Scholarship (Entrance Examination topper)	5 students
Integrated M.Phil- Ph.D.	University Fellowship	2 students



41) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes. Expert Committee Meetings are organized with experts from industries, institutes and research organizations to assess and analyse the need of launching new programmes as well as designing the course framework for the same.

42) Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes. Meetings of Board of studies are held where the Departmental faculty members are also the members to discuss and design the curriculum as well as teaching-learning-evaluation

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. The feedback of the students are given to the individual faculties so that necessary measures can be taken by the concerned faculty.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback? : Not Applicable

43) List the distinguished alumni of the department (maximum 10) – NIL

44) Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. –

- i. 10 days training programme on JAVA with the help of Astric Solutions (8-19 Jan,2013).
- ii. Established a resource centre with the support of IIT Bombay to promote free and Open Source software and conduct workshop under spoken tutorial project (Jan,13).
- iii. Expert talk by Dr. Vijay Rao, eminent scientist of ISSA lab, DRDO (1-2 March,2013).
- iv. 4 days EDP workshop by NIESBUD (16-19 March, 2013).
- v. Conducted FOSS workshop on PHP for M.Sc. Computer Science and Bio-Informatics (20th April, 2013).
- vi. One month summer training program on PHP and .NET (10th June – 13th July,2013).
- vii. Expert lecture on Computer Modelling, UNIX and Open Source by Dr.P.K. Mishra, Director, School of Computer Science, Indraprastha University, New Delhi (13 Aug,2013).
- viii. Placement training by Astric Solutions (5-6th Sept., 2013).



- ix. Expert lecture by Mr. Sushil Chandra, Scientist F, Institute of Nuclear Medicines and Allied Sciences, New Delhi, Topic- Emotional Intelligence (11th Sept., 2013).
- x. Placement talk by Astric Solutions (12-13th Sept., 2013).
- xi. Mock session (Interview) by HP India along with Astric Solutions (18th Sept., 2013).
- xii. FOSS workshop for LINUX by IIT Mumbai spoken tutorial (26th October, 2013).
- xiii. Workshop on understanding the needs and emerging trends in industries and research, organized in association with Astric Solutions . The speakers are Dr. R. Rajesh, Dr. D. Vijay Rao, Dr. P.K. Mishra (Director, School of Computer Science, Indraprastha University, New Delhi), Sri. Atul Mishra (ITS, Managing Director, Beltron, Patna), Mr. Mrinal Singh (UNO Digital Lab), Mr. P.K. Sinha (Director, Center of Excellence) and Mr. Piyush Singh (TCS) (22-23rd Nov, 2013).
- xiv. International Conference on Recent Trends in Computer Science and Engineering(ICRTCSE 2014), Dr. R. Rajesh and Dr. Prabhat Ranjan, Organizing Secretaries (8-9th Feb, 2014).
- xv. Seminar on “JAVA, J2EE and Web Technologies” by Vikash Kr. Tiwary, Software Engineer/Analyst, Accenture Tech., Bangalore (10th March, 2015).
- xvi. Seminar on “Emerging Technologies impacting Business across the globe and how Bihar can leverage US resources in education, ICT innovation” by Mr. Alak Verma, Director, Product Management, Oracle, USA (28th April, 2015).
- xvii. Entrepreneurship Development Programme (EDP) Workshop (19-21st May, 2015).

45) List the teaching methods adopted by the faculty for different programmes. –

Faculties use ICT for teaching learning process along with traditional methods. Classes are interactive so that there is an equal involvement of both the teacher and students.

46) How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

There is a system of continuous assessment of the students which includes class tests, presentations, assignments, laboratory classes, projects, mid-semester exams, end-semester exams etc. Department meetings are conducted as and when required to monitor the programme objectives.

47) Highlight the participation of students and faculty in extension activities.

Faculty and Students participated in the outreach programme organized in KendriyaVidyalaya in April, 2015.

48) Give details of “beyond syllabus scholarly activities” of the department. –

- I) Students participated in debate programs organized by Central University of Jharkhand on 2014.



II) Faculty and Students participated in the outreach programme organized in Kendriya Vidyalaya

49) State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Yes, M.Tech (Computer Science) program of the Department has been approved by All India Council for Technical Education(AICTE).

50) Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- i. International Conference "**ICRTCSE-2014**" organized by **Central University Of Bihar, Patna** to act as a forum for the educationalists, academicians, industry professionals, researchers, and students to exchange and share their experiences, new ideas and research results about all aspects of Computer Science and Engineering. The conference focused in the related areas of Computer science & engineering like Software Engineering, Neural Networks, Computational Intelligence, Speech Processing, Image/Video Processing, Operating Systems, Computer Networks, Network Security and many more. This has stimulated the associations among them by exchanging ideas in different areas of computer science.
- ii. Workshop on understanding the needs and emerging trends in industries and research, organized in association with Astric Solutions.

51) Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths – The Department is enriched with sincere and dedicated faculties who are always ready to help the students in needs. The Department is equipped with air-conditioned lab with high end computers with all required software including servers to provide computing facilities to the students. The programmes offered by the Department are designed to take students through rigorous ground-work for taking up research or coming out industry ready. The courses provide sound foundation in the fundamentals of Computing, Mathematical and Statistical sciences. There is ample technology orientation via laboratory-intensive courses. Rich (open) elective course basket providing plenty of space for inter-disciplinarily required by several emerging areas.

Weakness –The Department needs to exercise on increasing collaborative research/projects among the faculty members. Too much teaching load is there. There is a need for the recruitment of more number of faculties. Need more Associate Professor/Professor ranked faculties to support the Department.

Opportunities – The Department aims at providing opportunities for global excellence and local relevance in research, teaching and technology development. The Department also offers several attractive training and workshop programmes according to the market need.



Challenges – Being a new Department many obstacles are coming in the way. Sometimes it becomes difficult to organize huge academic activities within this limited space. The faculty strength needs to be increased in near future. There is high variance in student ability and experience. There is no IT hub in this region due to which campus placements are difficult. In spite of these challenges, the Department is running smoothly and growing each year with the constant effort of the dedicated faculty members and the support of the University authority.

52) Future plans of the department.

- i. The Department is highly motivated to tie-up with industries and other research institutes to create new opportunities for learning, research and placement for the students in the coming days.
- ii. The Department in future will also go for special labs with systems and software in the areas of high performance computing, networking, image processing, software engineering, nature inspired computing, speech processing, data mining, soft computing, etc. The Department needs financial assistance for it from Govt. Agencies and UGC.



Evaluative Report of Department of Statistics

Department of Statistics

- 1) **Name of the Department :** Statistics
- 2) **Year of establishment :** 2010
- 3) **Is the Department part of a School/Faculty of the university? :** Yes, School of Mathematics, Statistics and Computer Science
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :** Post Graduate and Integrated M.Phil.-Ph.D.
- 5) **Interdisciplinary programmes and departments involved:**
 - (i) Organized International Conference jointly with Department of Mathematics and Department of Computer Science during 29-31 May 2015.
 - (ii) Summer School jointly with the Department of Mathematics during 30 May- 11 June, 2011.
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc. :** None
- 7) **Details of programmes discontinued, if any, with reasons :** None
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System :** Semester/Choice Based Credit System
- 9) **Participation of the department in the courses offered by other departments:** The Department of Statistics participates in teaching of the courses offered by other Departments that include Psychology, Bioinformatics and Biotechnology etc.
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	01 (on contract)	
Associate Professors	02	Nil	
Asst. Professors	04	03 (one on lien)	
Others			

- 11) **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D. / M.Phil. students guided/



					guiding in last 4 years
Prof. Arun Kr Sinha	Ph.D.	Professor (Contract)	Distribution Theory and Survey Sampling	44(Approx.)	Three Ph.D. Degrees awarded and Two Ph.D. Thesis submitted at Patna University.
Dr.Amit Kr. Misra (On lien)	Ph.D.	Asst. Professor	Reliability Theory, Stochastic Orders, Applied Probability	4 (Approx.)	Nil
Dr. Richa Vatsa	Ph.D.	Asst. Professor	Bayesian Statistical Modeling and Computing	4(Approx.)	Supervising One M.Phil student
Dr. Mukesh Kumar	Ph.D.	Asst.Professor	Sampling Theory	4 (Approx.)	Nil

12) **List of senior Visiting Fellows, adjunct faculty, emeritus professors :Nil**

13) **Percentage of classes taken by temporary faculty – programme-wise information:**
30% (Approx.) Initially some temporary faculties were associated in the beginning of the M.Sc. (Statistics) Programme.

14) **Programme-wise Student Teacher Ratio :**

Session:	P.G.	Ph.D.
2014-2015	11:4	1:4
2015-2016	16:3	2:3

15) **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :** One shard with all Centres of the school

16) **Research thrust areas as recognized by major funding agencies :** Nil

17) **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. :** On



18) Name of the Project: Optimal active (standby) redundancy allocations in series systems.

Funding Agency: UGC
Fund Sanctioned: 6 Lakh
Funded to: Dr. Amit Kumar Misra

19) Inter-institutional collaborative projects and associated grants received

a) National collaboration: Nil b) International collaboration: Nil

20) Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : Nil

21) Research facility / centre with

- o state recognition : Nil
- o national recognition : Nil
- o international recognition : Nil

22) Special research laboratories sponsored by / created by industry or corporate bodies : Nil

23) Publications:

Prof. Arun Kumar Sinha:- 08

1. "Ranked set sampling methods for vegetation research" *Int. J. Mendel*, (ISSN: 0970-9649), **31 (1-2)**, 13-22 (2014).
2. "Sampling of urban places" (with Ravi Ranjan Sinha) *Jornal of Patna Science College* (ISSN 2347-9604), **2**, 165-176.(2014).
3. "Estimating underground farm produce by ranked set sampling with unequal allocations" (with Vijay Kumar) *Int. J. Agricult Stat. Sci.* (ISSN: 0973-1903), **11(1)**, 47-52 (2015).
4. "Statistical quality control techniques in service sectors" (with M. S. Alam) *International Journal of Statistics and Systems* (IJSS) (ISSN 0973-2675), **10 (1)**, 66-70 (2015).
5. "Estimating the weight of sugarcane by ranked set sampling" (with Rahbar Ali) *International Journal of Statistics and Systems* (IJSS) (ISSN 0973-2675), **10 (1)**, 93-98 (2015).
6. Ranked Set sampling: As a cost effective and more efficient data collection method (Accepted for *Statistical Journal of IAOS* (International Association of Official Statistics), International Statistical Institute Amsterdam.



7. The Changing Levels and Trends of Carbon Dioxide Emissions: *In Climate Change Aquatic Community Structure and Disease*/Ed. Ram Kumar), Ilavart Publication, New Delhi, (ISBN: 81-904058-7X) (2015).
8. "Big Data and Changing Role of Statistics", published in the Journal of Patna Science College (JPSC, ISSN 2347-9604), 3, 171-178 (2015).

Dr. Amit Kumar Mishra: - 06

1. "Standby Redundancy Allocations in Series and Parallel Systems", (jointly with Neeraj Misra and Ishwari Dutt Dhariyal). *Journal of Applied Probability* **48**, 43–55 (2011).
2. "Active Redundancy Allocations in Series Systems", (jointly with Neeraj Misra and Ishwari Dutt Dhariyal). *Probability in the Engineering and Informational Sciences*, **25**, 219–235 (2011).
3. "A Note on Active Redundancy Allocations in k -out-of- n Systems", (jointly with Neeraj Misra). *Statistics and Probability Letters*, **81**, 1518–1523 (2011).
4. "New Results on Stochastic Comparisons of Two-Component Series and Parallel Systems", (jointly with Neeraj Misra). *Statistics and Probability Letters*, **82**, 283–290 (2012).
5. "Stochastic Properties of Conditionally Independent Mixture Models", (jointly with Neeraj Misra). *Journal of Statistical Planning and Inference*, **142**, 1599–1607 (2012).
6. "On Comparison of Reversed Hazard Rates of Two Parallel Systems Comprising of Independent Gamma Components", (jointly with Neeraj Misra). *Statistics and Probability Letters*, **83**, 1567–1570 (2013).

- * **Number of papers published in peer reviewed journals (national / international):** Total 11
- * **Monographs:** Nil
- * **Chapters in Books :** Five
- * **Edited Books:** Nil
- * **Books with ISBN with details of publishers:** Nil
- * **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :** Six (listed in Web of Science, Scopus)
- * **Citation Index – range / average:** Nil
- * **SNIP**
- * **SJR**
- * **Impact Factor – range / average**
- * **h-index**

24) **Details of patents and income generated :** Nil

25) **Areas of consultancy and income generated :** Nil

26) **Faculty selected nationally / internationally to visit other laboratories / institutions:**
Nil



27) **industries in India and abroad :** Nil

28) **Faculty serving in**

- a) **National committees:** Prof. Arun Kumar Sinha
- b) **International committees :** Prof. Arun Kumar Sinha
- c) **Editorial Boards :** Prof. Arun Kumar Sinha
- d) **any other (please specify)**

29) **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):**

- (i) Dr. Amit Kumar Misra Attended 65th Orientation Programme at UGC- Academic Staff College, Patna University, Patna during Nov. 23 to Dec. 20, 2013.
- (ii) Dr. Mukesh Kumar Attended 69th Orientation Programme at UGC –Academic Staff College Patna University, Patna during Nov 08, 2014 to Dec 05, 2014.

30) **Student projects**

- **percentage of students who have done in-house projects including inter-departmental projects :** 100%
- **percentage of students doing projects in collaboration with other universities / industry / institute :** Nil

31) **Awards / recognitions received at the national and international level by**

Faculty : One

Doctoral / post-doctoral fellows : Nil

Students : Nil

32) **Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any. :**

1. International Conference on Recent Advances in Mathematics, Statistics and Computer Science (ICRAMSCS-2015) was organized jointly by the Department of Statistics, Mathematics, and Computer Science during 29-31 May 2015. The outstanding participant included Prof. G.P. Patil, USA, Prof. J.N. Singh, USA, Prof. Pranesh Kumar, Canada, Prof. Bhudev Sharma, India and many more. It was funded by CUSB, DST- Govt. of India, Nalanda Open University, Patna, Minitab (CUBIC).

33) **Code of ethics for research followed by the departments:** Not Applicable.

34) **Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Session	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
M.Sc. Statistics	2012-2014		01(0)	01	--	100%



M.Sc. Statistics	2013-2015		02 (01)	02	100%	100%
M.Sc. Statistics	2014-2016		07	01	--	--
M.Sc. Statistics	2015-2017		08	01	--	--
M.Phil (Statistics)	2014-2016		--	01	--	--
M.Phil (Statistics)	2015-2017		01	--	--	--

35) Diversity of students :

Name of the Programme (refer to question no. 4)	Session	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.Sc. Statistics	2012-2014	Nil	100	--	Nil
M.Sc. Statistics	2013-2015	Nil	--	100	Nil
M.Sc. Statistics	2014-2016	Nil	87.5	12.5	Nil
M.Sc. Statistics	2015-2017	Nil	100	--	Nil
M.Phil (Statistics)	2014-2016	Nil	--	100	Nil
M.Phil (Statistics)	2015-2017	Nil	--	100	Nil

36) How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

: We have No information about Passed students.

37) Student progression

Student progression	Percentage against enrolled
UG to PG	N.A.
PG to M.Phil.	Nil
PG to Ph.D.	N.A.
Ph.D. to Post-Doctoral	Nil
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	-- 100%
Entrepreneurs	Nil



38) Diversity of the staff

Percentage of the faculty who are graduates	
of the same university	Nil
from the other University within the state	25%
from the other University from other states from	50%
University outside the country	25%

39) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

40) Present details of departmental infrastructural facilities with regard to

- a. **Library** : No Separate Departmental Library
- b. **Internet facilities for staff and students** : Yes (Centrally)
- c. **Total number of class rooms** : One
- d. **Class rooms with ICT facility** : One
- e. **Students' laboratories** : Centralised
- f. **Research laboratories** : No separate Departmental Laboratory

41) List of doctoral, post-doctoral students and Research Associates

- **from the host institution/University** : Nil
- **from other institutions/universities** : Two Integrated M Phil-Ph.D. students.

42) Number of post graduate students getting financial assistance from the university. :
04 in the year 2014-2015

43) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. : A Board of Studies (BOS) is constituted consisting of two experienced external members of Professor Rank along with Head of the Department .The Board recommends the revised curriculum.

44) Does the department obtain feedback from

- a. **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?** : Feedback is considered while updating the curriculum.
- b. **students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?** : Feedback is utilised for improving the teaching learning process and developing better academic programme and environment.



- c. **alumni and employers on the programmes offered and how does the department utilize the feedback?** : No previous students of the Statistics Department participated in the alumni meet.
- 45) **List the distinguished alumni of the department (maximum 10):** All passed students of the past four years are employed.
- 46) **Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.** : Special Lectures were delivered by Prof. Ashis Sen Gupta and Dr. Pankaj Srivastava. Besides, a Workshop on SPSS was organized. Second World Statistics Day was celebrated on 20th Oct 2015. On this occasion a special lecture was delivered by Prof. Amarendra Mishra, Former Dean, Faculty of Science, PU and Former Head, Deptt. of Statistics, PU. Prof. H.C.S. Rathore, Hon'ble VC presided over the function.
- 47) **List the teaching methods adopted by the faculty for different programmes.:** Usually lectures are followed by interaction and demonstration using Statistical Softwares by the faculty members.
- 48) **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?** : Teaching and evaluation are followed by discussion. Extra support is provided to weak students.
- 49) **Highlight the participation of students and faculty in extension activities:** The Department regularly organizes the interdisciplinary activities like Conference, Workshops, Seminars, and Lectures etc.
- 50) **Give details of “beyond syllabus scholarly activities” of the department.**
- (i) An International Conference ICRAMSCS-2015 was organized during 29-31 May 2015.
 - (ii) Summer School jointly with the Department of Mathematics during 30 May- 11 June, 2011.
 - (iii) Workshop on “Latex” under spoken Tutorial Project organized at Central University of south Bihar on April 5, 2014
 - (iv) One week long workshop on Statistical Computing during Nov 13-Nov 18, 2013.
 - (v) Special classes were organized for NET and GATE examinations by the Department with the Department of Mathematics
 - (vi) An essay competition was held for Statistics (PG & UG) students (including outsiders) on the occasion of 2nd World Statistics Day, 20th Oct 2015. Top three prizes were given by the Hon'ble Vice Chancellor.
- 51) **State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.** : No



52) Briefly highlight the contributions of the department in generating new knowledge, basic or applied. : An International Conference ICRAMSCS was organised and the proceedings will be published soon.

53) Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

• **The major strengths of the Department of Statistics include:**

- (i) Committed and dedicated faculty members with international experience
- (ii) Availability of Statistical Softwares like Minitab, SPSS and IBM Data Modeller
- (iii) Computer laboratory
- (iv) Devoted Students
- (v) A large number of recent books on various areas of the Statistics.

• **There is no specific weakness of the Department.**

However, we could mention that the University does not have its own building. Also, we do not have the full strength of the faculty members and students. But the number of students has increased many folds in the last two years. We have introduced Business Analytics in M.Sc.(Statistics) curriculum and got installed three latest versions of Statistical Softwares, namely, IBM SPSS Modeler 16.0, Minitab 17, SPSS 22. These additions will surely enhance opportunities as well as challenges.

54) Future plans of the department.

We wish to

- (i) have separate statistical laboratory.
- (ii) establish a statistical consulting service to cater the needs of the scholar and govt. services.
- (iii) have more statistical software's like SAS for data mining related things.
- (iv) keep updated the curriculum based on new researches.



SCHOOL OF SOCIAL SCIENCES AND POLICY

**Centre for
Development Studies**

**Centre for Political
Studies**

**Centre for
*Economic Studies
and Policies***

**Centre for
Sociological Studies**

Evaluative Report of Centre for Development Studies





Centre for Development Studies

- 1) **Name of the Department** : Centre for Development Studies
- 2) **Year of establishment** : 2009
- 3) **Is the Department part of a School/Faculty of the university?** : Yes
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)** :
 - Post Graduate Programme
 - Integrated M.Phil-Ph.D
- 5) **Interdisciplinary programmes and departments involved** : Yes, Department is involved in teaching with other departments like Economics, Sociology and Political Sciences
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc.** : Not Applicable
- 7) **Details of programmes discontinued, if any, with reasons** : Not Applicable
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System:** Semester and Choice Based Credit System
- 9) **Participation of the department in the courses offered by other departments** : Open Courses offered for Human & Social Sciences Students
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	Nil	Nil
Associate Professors	02	Nil	Nil
Asst. Professors	04	03	03
Others	--	--	--



11) Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D./ M.Phil. students guided/ guiding in last 4 years
Dr Firdaus Fatima Rizvi	Ph.D.	Assistant Professor	Economics	02 years	02 nos.
Dr. Anju Helen Bara	Ph.D	Assistant Professor	Political Science	04 years	01 no./ co-supervisor
Mr. Aditya Mohanty	M.A.	Assistant Professor	Sociology	03 years	01 no./ co-supervisor

12) List of senior Visiting Fellows, adjunct faculty, emeritus professors :

Prof. Gaurang Sahay, TISS
Prof. Sunil Ray, IDS, Jaipur
Prof. T.N. Sinha, Patna University
Prof. Rajeshwar Mishra, Patna University
Mr. Shekhar Ambati (Aide-et-Action, International NGO)

13) Percentage of classes taken by temporary faculty – programme-wise information: 5-10%

14) Programme-wise Student Teacher Ratio: 4:1

15) Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : One administrative Staff (LDC)

16) Research thrust areas as recognized by major funding agencies : None

17) Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. : None

18) Inter-institutional collaborative projects and associated grants received : None

a) National collaboration

b) International collaboration

19) Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : None



20) Research facility / Centre with

- **State recognition :** None
- **National recognition:** None
- **International recognition:** None

21) Special research laboratories sponsored by / created by industry or corporate bodies : None

22) Publications:

Dr. Anju Helen Bara :- 01

1. NC Narayanan and **Anju Helen Bara**, 2012, Enhancing Drinking Water and Sanitation Access to Poor: Lessons of NGO- Government Collaboration in Eastern India, Journal of Governance and public Policy, Vol. 2, No. 1

Dr. Firdaus Rizvi :- 02

1. Thorat, Sukhdeo, Banerjee Anuradha, Vinod K. Mishra, Firdaus F. Rizvi, Urban Rental Housing Market: Caste and Religion Matters in Access, Economic and Political Weekly, Mumbai, India, Vol 50, Issue No. 26-27, 2015, ISSN 23498846.
2. Banerjee Anuradha, Vinod K. Mishra, Firdaus F. Rizvi, Mashkooor Ahmad, "Discrimination in the Urban Rental Housing Market: A Spatial Analysis of the Delhi Region", Journal of Social Inclusion Studies, Vol. 1, Number 1, pp.135-147, July-December, 2014, RNI No. DELENG 18670/29/1/2014, ACP License J-9/2014.

Articles in Edited Books

1. **Canal Development: A Cause of Change in Land Use Pattern'** in "Population Dynamism and Resource Utilization: Geo-Informatics and Resource Dynamics", Volume Three (edited) by Farasat Ali Siddiqui, Academic Publications, New Delhi 2015, ISBN 978-93-83931-18-7.

Mr. Aditya Mohanty

Article(s): Published

1. *From Bhagidari to MohallaSabhas: When participation trumps governance!* in the Journal **Economic and Political Weekly** Volume 49 No.14 (ISSN: 0012-9976) .
2. *'Differential Spaces of Globalisation'* in the Journal **Economic and Political Weekly** Volume 47 No.1 (ISSN: 0012-9976) .

Conference Proceeding(s):



1. *The Production of Governmentality in the Postcolonial Megalopolis of Delhi* presented in the International conference themed 'Rethinking Urban Inclusion: Spaces, Mobilizations, Interventions' held at the University of Coimbra, Portugal from 28-30 June, 2012 and published in the **e-journal CEScontexio Volume No. 2**, June 2013

Book Review(s):

1. Hank Johnston (2011) *States and Social Movements* in the Journal ***International Sociology Volume 27 No. 6***(Print ISSN: 0268-5809; Online ISSN: 1461-7242)
2. Ugo Rossi and Alberto Vanolo's (2012) *Urban Political Geographies: A Global Perspective* in the Journal ***Urban Policy and Research Volume 30(2)***.

- * **Number of papers published in peer reviewed journals (national / international):**07
- * **Monographs :** Nil
- * **Chapters in Books:** 07
- * **Edited Books:** Nil
- * **Books with ISBN with details of publishers:** Nil
- * **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :** Nil
- * **Citation Index–range/average :** Nil
- * **SNIP :** Nil
- * **SJR :** Nil
- * **Impact Factor–range/average:** Nil
- * **h-index :** Nil

23) **Details of patents and income generated :** None

24) **Areas of consultancy and income generated :** None

25) **Faculty selected nationally / internationally to visit other laboratories / institutions /industries in India and abroad:** None

26) **Faculty serving in**

- a) **National committees** b) **International committees** c) **Editorial Boards** d) **any other (please specify)** -None

27) **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).** :- One

28) **Student projects**

- **percentage of students who have done in-house projects including inter-departmental projects–** 100%



- **percentage of students doing projects in collaboration with other universities/industry/institute- 100%**

29) Awards / recognitions received at the national and international level by

- **Faculty-** None
- **Doctoral / post-doctoral fellows-** None
- **Students -** None

30) Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.

- Development Meet (An annual conference of the Centre for Development Studies)
- First Development Meet-2011- No external funding
Details of outstanding participants- Prof.Gaurang Sahay
- Second Development Meet-2012- No external funding
Details of outstanding participants-
Prof. Parasuraman (Director, TISS)
Prof. Achin Chakravorty (Director, IDS, Kolkata)
Prof. N.C.Narayanan (IIT Bombay)
Prof. Sunil Ray (IDS Kolkata)
Shri Vinay Odhar (Action Aid)
Shri. Praveen (OXFAM)
- Third Development Meet- 2013-No external funding
Details of outstanding participants-
Prof.AmiyaBagchi (Emeritus Professor)
Prof. Rajeshri Mazumdar (University of Burdwan)
Prof. Shankar Bhowmick (University of Calcutta)
Prof. Ursula Rao (University of Leipzig, Germany)
- Fourth Development Meet-2014- ICSSR funding (National)
Details of outstanding participants-
Prof. Achin Chakraborty (Director, IDS, Kolkata)
Prof. Soundarjya Borbora (IIT Gauhati)
Prof. Sumangalam (Ambedkar University, New Delhi)
- Fifth Development Meet-2015- CII funding (National)
Prof.Amit Bhaduri, Honorary Fellow, ICSSR
Prof.P.M.Kulkarni, JNU
Prof. Sharat Bhowmick, National Fellow-ICSSR

Workshop on ‘Proposal Writing’, on 23-24 January, 2013. Resource Person- Prof. Bhasker Majumder (G.B.Pant Social Science Institute, Allahabad and CDS. CUSB Patna), Prof.D.M.Diwakar (Director, A.N.Sinha Institute of Social Sciences, Patna), Mr. Madan G. Gupta (G.B.Pant Social Science Institute, Allahabad) and G.N. Jha

(G.B.Pant Social Science Institute, Allahabad)

Workshop on ‘Development and Standardization of Questionnaire for Social Research’, on 5-6 April, 2012. Resource persons, Prof. Janak Pandey (ICCSR Fellow) and Dr. Neena Kohli (Centre for Advanced Studies in Psychology, University of Allahabad).

31) Code of ethics for research followed by the departments : University rules and regulations are followed

32) Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Session	Selected		Pass percentage	
		Male	Female	Male	Female
MA Development Studies	2014-16	5	4	Not applicable	Not applicable
MPhil-PhD. (Development Studies)	2014-16	2	Nil	Not applicable	Not applicable
MA Development Studies	2015-17	3	1	Not applicable	Not applicable

33) Diversity of students :

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MA Development Studies	Nil	90%	10%	Nil
MPhil-PhD. (Development Studies)	50%	50%	Nil	Nil

34) How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

JRF-	02
NET-	03
Banking-	02
Gandhi Fellowship-	01
ISRO-	01



Research Scholars (M.Phil/PhD)- 11

International/ National NGOs- 18

35) Student progression:

Student progression	Percentage against enrolled
UG to PG	Not Applicable
PG to M.Phil.	11
PG to Ph.D.	Not Applicable
Ph.D. to Post-Doctoral	Not Applicable
Employed	
<input type="checkbox"/> Campus selection	Nil
<input type="checkbox"/> Other than campus recruitment	22
Entrepreneurs	Nil

36) Diversity of staff

Percentage of faculty who are graduates of the same University	0%
from other universities within the State	0%
from universities from other States from	100%
universities outside the country	0%

37) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period - 01

38) Present details of departmental infrastructural facilities with regard to

- a. **Library** : None
- b. **Internet facilities for staff and students-** yes
- c. **Total number of class rooms** -01 no.
- d. **Class rooms with ICT facility** :yes
- e. **Students' laboratories** : Not Applicable
- f. **Research laboratories** : Not Applicable



39) List of doctoral, post-doctoral students and Research Associates

- a. from the host institution/University : 01
- b. from other institutions/universities : 01

40) Number of post graduate students getting financial assistance from the university:

41) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. Yes, through Board of Studies meeting involving experts and Professors

42) Does the department obtain feedback from

(a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? :

Yes, through Board of Examiners and Centre Committee meetings. Feedback is used for upgrading the syllabus and teaching methodology.

(b) students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes, through Course Assessment Evaluation. Feedback is used for upgrading teaching and learning strategies.

(c) alumni and employers on the programmes offered and how does the department utilize the feedback?: None

43) List the distinguished alumni of the department (maximum 10) : None

44) Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.:

- i. Workshop on 'Proposal Writing', on 23-24 January, 2013. Resource Person- Prof.BhaskerMajumder (G.B.Pant Social Science Institute, Allahabad and CDS. CUSB Patna), Prof.D.M.Diwakar (Director, A.N.Sinha Institute of Social Sciences, Patna), Mr. Madan G. Gupta (G.B.Pant Social Science Institute, Allahabad) and G.N. Jha (G.B.Pant Social Science Institute, Allahabad)
- ii. Workshop on 'Development and Standardization of Questionnaire for Social Research', on 5-6 April, 2012. Resource persons, Prof.JanakPandey (ICCSR Fellow) and Dr.NeenaKohli (Centre for Advanced Studies in Psychology, University of Allahabad).

45) List the teaching methods adopted by the faculty for different programmes.

Use of Lectures, PPT, ICT, Movies, Simulation Exercises. Field Work and Rural exposure visit. Continuous Evaluation etc.

46) How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Through Continuous Evaluation of Students. Regular monitoring and weekly meeting with the students is a way to address student's issues. Students counselling for higher



education, Research and other achievement. Encouraging students to apply for international and national competitions.

47) Highlight the participation of students and faculty in extension activities:

Students participate in various activities such as Internship program, field work, and social activities. They participate in the Centre's Annual event, Development Meet, wherein they present their master thesis work and posters. They also participate in student seminar in other institutions like IHD Patna.

Faculty attend conferences, workshops, Seminars etc both nationally and internationally.

48) Give details of “beyond syllabus scholarly activities” of the department.

Students participate in various activities such as Internship program, social activities.

- Field work is an important part of our Centre.
- Rural exposure visit is a compulsory activity of our Centre. Till now our students have visited places like Araria, Gaya, Mastichak, Siwan and Muzaffarpur as a part of Rural Exposure visit.
- For Swach Bharat Abhiyaan, students selected a nearby slum and did awareness campaign in the slum and local government school.
- Students visited KisanMela in Patna.

49) State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. Yes, accredited by UGC

50) Briefly highlight the contributions of the department in generating new knowledge, basic or applied. Faculty are involved in Research Activities and also train students for basic and applied research.

51) Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength: Faculty from Reputed Indian Institutions such as IIT, G.B.Pant Institute of Social Sciences.

Weakness: Lack of Awareness amongst prospective students regarding Institution and available facilities.

Opportunities: Quality Research Facilities and quality higher education for prospective Students.

Challenges: Increasing awareness amongst public and beneficiaries about the Institution and its educational & Research facilities.

52) Future plans of the department.

Making Centre for Excellence



Evaluative Report of Centre for Political Studies

Centre for Political Studies

- 1) **Name of the Department: Centre for Political Studies (CPS)**
- 2) **Year of establishment: 2012**
- 3) **Is the Department part of a School/Faculty of the university? : Yes; Centre is under the School of Social Sciences and Policy (SSS&P)**
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., D.Sc., D.Litt., etc.) :**

SN	Level	Program	Other Information about the Program
1	UG	BABEd (Four Year Integrated Program)	Interdisciplinary offered by School of Education
		BALLB (Five Year Integrated Program)	Interdisciplinary offered by School of Law and Governance
2	PG	MA in Political Science and International Relations	Offered by CPS
3	MPhil-PhD	Integrated MPhil-PhD	Offered by CPS

- 5) **Interdisciplinary programmes and departments involved: UG- B.A. B.Ed. & B.A. LLB**
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc. : Not Applicable**
- 7) **Details of programmes discontinued, if any, with reasons: None**
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System: Semester System (with CBCS)**
- 9) **Participation of the department in the courses offered by other departments: Yes, (As mentioned at No. 4)**
 - (i) School of Education
 - (ii) School of Law
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate**

Professors/Asst. Professors/others):

	Sanctioned	Filled	Actual
Professor	01	0	Nil
Associate Professor	02	1	One
Assistant Professor	04	4	Four as on date
Others		0	---



11) Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph. D. students guided for the last 4 years
Dr Alok Kumar Gupta	Ph. D.	Associate Professor	International Relations (South Asia) Conflict & Peace Studies	14 Years	02
Dr Sumit Kumar Pathak	Ph. D.	Assistant Professor	Political Theory and Political Philosophy, Indian Govt. and Politics and Public Administration	3 Years	0
Dr Abhay Kumar	Ph. D.	Assistant Professor	International Relations (Japanese Studies)	3 Years	0
Dr Pranav Kumar	Ph. D.	Assistant Professor	African Studies, Geopolitics, Comparative Politics, International Political Economy	7 Years	
Dr Prashant Kumar	Ph. D.	Assistant Professor		2 and half Year	0

12) List of senior Visiting Fellows, adjunct faculty, emeritus professors: NIL

13) Percentage of classes taken by temporary faculty – programme-wise information: NIL

14) Programme-wise Student Teacher Ratio:

U.G. = 5:1

P.G. = 9: 5

Integrated M.Phil./Ph. D.= 2:5

15) Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : NIL (Centralised Office System)



- 16) **Research thrust areas as recognized by major funding agencies:** None
- 17) **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. :** NIL
- 18) **Inter-institutional collaborative projects and associated grants received:** NIL
- 19) **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. :** None
- 20) **Research facility / centre with**
 - state recognition--NIL
 - National recognition--NIL
 - international recognition--NIL
- 21) **Special research laboratories sponsored by / created by industry or corporate bodies:** NIL.
- 22) **Publications:**

Dr. Alok Kumar Gupta:

Chapters in Books

- (1) **Sino-Sri Lanka Relations: Foreign Policy Challenges for India**, published in a book titled India in Emerging Asia-Pacific, edited by Dr. Sudhir Singh (Pentagon Press, New Delhi 2014). [Presently in Press]
- (2) **Tribal Rights and Folk-arts: Imperatives towards Policy Interventions in the Land of Birsa**, published in a book titled Emancipation of Tribes & Human Rights in India edited by Dr. Sudhir Singh & Ruchi Ramesh, (Pentagon Press, New Delhi 2013) [Co-authored with Saurabh Bhaumik] [ISBN 978-81-8274-713-5]

Articles in Journals

1. “**India’s Policy in the Neighborhood: Miscalculations and Potentials for redefining its role in the emerging World Order**”, in *World Focus*, September 2014, [ISSN 2230-8458], US Library of Congress No.: 80910345, pp. 35-42.
2. “**Recent Political Development in Nepal: Foreign Policy Challenges for India**”, in *Politico*, Bi-annual, Vol-1 No-1, 2013. [ISSN 2322-0686], pp.1-12.
3. “**Sri Lanka and Maldives: New Pivots of Chinese Geopolitics in South Asia**”, in *Politico*, Bi-annual, Vol-2 No-1, 2013. [ISSN 2322-0686], pp.1-12.
4. “**India and Crisis of Legitimacy in Bangladesh**”, in *Third Concept*, March 2014 [ISSN-0970-7247], pp.17-21.



5. “Focus on Second Constituent Assembly of Nepal”, in *Third Concept*, January 2014 [ISSN-0970-7247], pp.10-14.
6. “Indo-Bangladesh Land-Swap Deal: An Overview”, in *Third Concept*, October 2013 [ISSN-0970-7247], pp.10-14.
7. “China’s New Maritime Silk Road Strategy”, in *Third Concept*, July 2014 [ISSN-0970-7247], pp.11-15.

Articles on Think Tank Website

- “Bangladesh Post Elections 2014: India’s Challenges and Options” Article No. 4266, 20 January 2014, www.ipcs.org [Institute of Peace and Conflict Studies]

Articles in Newspapers

- “Bhartiya Rajniti ki Nai Karwat”, *Lokmat Samachar*, February 17, 2014, pg.4.

Participation in Seminar/Conference/Workshop

- 1) Participated in the 55th Annual Conference of Indian Political Science Association held at Hyderabad during December 28-30, 2013 and presented a paper on “India’s Foreign Policy Miscalculations: Potentials for Redefining its Role in Emerging World Order” organized by Indian Political Science Association (IPSA).
- 2) Participated in One-Day Round Table Conference on “Naxalism, Development and Crisis of Governance” organized by Center for Human Rights and Conflict Management at Central University of Jharkhand on March 26, 2014.
- 3) Chaired one Session on “Social Capital and Human Capabilities” in Development Meet—2014 organized during February 21-22, 2014 by Centre for Development Studies (CDS) at Central University of Bihar (Patna).

Scheduled Participation

- 1) Scheduled to participate and present a paper on “Growing China’s Interventions in Sri Lanka and Maldives: Foreign Policy Implications for India” in an International Conference on “India-China Relations: Implications for Peace and Prosperity in Asia” being organized by Center for Southeast Asian and Pacific Studies at Sri Venkateshwara University at Tirupati during October 11-13, 2014.

Dr. Sumit Kumar Pathak:

1. “Theoretical Underpinnings of Myanmar’s Quest for Democracy and Civil Society,” *Himalayan and Central Asian Studies*, Vol. 18, No. 1-2, January-June 2014.
2. Chapter in Edited book – *Why Should We Obey the State: Issues of Civil disobedience & Political Obligation* (Delhi: Hindi Madhyam Karyanvay Nideshalaya, Delhi University, January – 2013).



Dr. Pranav Kumar:

Paper/ Article Publication

1. Kumar, Pranav (2013), "India's Relationship with Africa: Underestimated and Underachieved," *The Journal of Interdisciplinary Policy Research and Action*, pp.72-73. Vol. 7, Issue 1-2, Jan-June 2013, pp. 62-71 (ISSN 0937-0568).
2. Kumar, Pranav (2013), "Economic Conditions in Mozambique," *Diplomatist*, vol.I, Issue 3, June 2013, pp 72-73.
3. Kumar, Pranav (2014), "Bharat Ke Achchhe Din evam Videsh Neeti kee Prathamiktayen," *The Indian Era*, July 2014, pp.32-33 (In Hindi) ISSN 2349-719X).
4. Kumar, Pranav (2014), "Bharat-Bangladesh Samudrvartee Vivad Ka Shantipoorn Niptara evam Antarrashtrreey Shashan-Pranalee," *The Indian Era*, August 2014, pp.32-33 (In Hindi) (ISSN 2349-719X).
5. Kumar, Pranav (2014), "Securing Sea Lanes of Communication (SLOCs) in the Asia-Pacific and India-Japan Cooperation," in G. Jayachandra Reddy, ed., *India-Japan Relations: Economic, Strategic and Security Cooperation* (Tirupati: UGC Centre for Southeast Asian & Pacific Studies, 2014), pp.235-248 (ISBN 819269046-6).

Conferences

1. Delivered a lecture on "Emerging Geopolitics of Indian Ocean: Imperatives for India" on 19 February 2014 under the Weekly Seminar Series (WSS) at Central University of Bihar, Gaya
2. Presented a paper entitled "Asian Maritime Security Constellation and India" in a **National Seminar** on *Dynamics of Geopolitics and National Security in Asia* organized by Department of Civics and Politics, University of Mumbai during 3- 4 February 2014
3. Presented a paper entitled, "The Churning of Eastern Africa's Maritime Sphere: Opportunities and Challenges for India" in an **International Conventions** on *Re-Imaging Global Order: Perspectives from the of Global South* organized by School of International Studies, Jawaharlal Nehru University, New Delhi, in collaboration with six other Universities and Institution during 10-12 December 2013.

Dr Prashant Kumar:

Lectures:

- Delivered a lecture on 'Changing Dynamics of Indian Politics: Challenges and Prospects' as part of the Weekly Seminar Series, CUB, February 05, 2014

Seminars/Conferences:

- Presented a paper titled "Peace as Doublespeak?: Theory & Practice of Gandhian Techniques of Conflict Resolution with Selective Case Studies" in a three day National Seminar on the theme "Gandhi, Peace, Social Harmony and Conflict Prevention and Resolution" organized by the Centre for Conflict Resolution and Social Harmony, Central University of Bihar in collaboration with Centre for Gandhian Studies, GITAM University, Vishakhapatnam February 24-26, 2014



Publications:

1. Published an article jointly with Bagisha Suman titled “Realist Views on the Realities of the Post-Cold War International System” in the International Journal, *Peace works: An Interdisciplinary Journal*, ISSN no. 2320-1750, Volume 3, no. 1. 2013, pp.86-95
2. Published an article titled “Rwandan Conflict and the Process of Identity Formation” in the International Journal, *Peace works: An Interdisciplinary Journal*, ISSN no. 2320-1750, Volume 3, no. 1. 2013, pp.55-63
3. Published an article jointly with Bagisha Suman titled “Maoist Politics in Nepal: Ramifications for India” in the International Journal, *Vaichariki*, ISSN no. 2249-8907, vol. 3, no.4.

23) **Details of patents and income generated:** None

24) **Areas of consultancy and income generated:** None

25) **Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad:** NIL

26) **Faculty serving in**

a) **National committees** b) **International committees** c) **Editorial Boards** d) **any other (please specify)** – One (Dr ALok Kumar Gupta, Member of the Editorial Board on one Journal)

27) **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).** :- Orientation programmes

28) **Student projects**

- **percentage of students who have done in-house projects including inter-departmental projects** – None
- **percentage of students doing projects in collaboration with other universities/ industry / institute** – None

29) **Awards / recognitions received at the national and international level by**

- **Faculty** – None
- **Doctoral / post doctoral fellows** – One [Ms. Salma Zafar got UGC-JRF award as a student of integrated MPhil-PhD]
- **Students** – [Ms. Salma Zafar as a student of MA participated in national essay cum seminar contest and won prizes]

30) **Seminars/ Conferences/Workshops organized and the source of funding (national International) with details of outstanding participants, if any.**



- (i) CPS organized a “One-day Workshop” on November 17, 2014 on “India’s Policy on Neighbourhood” supported by Indian Council of World Affairs (ICWA), New Delhi. ICWA has funded Rs. One Lakh towards organizing this event.
- (ii) CPS organized a Lecture by Ambassador Ashok Kumar Attri, (IFS) on “India’s Foreign Policy on Neighbourhood” in Co-operation with Public Diplomacy Division, Ministry of External Affairs, Government of India on April 29, 2014 at Gaya, Bihar.
- (iii) Dr. Sumit Pathak delivered a Lecture on “Bhartiya Samaj me civil society ki Badhti Bhumika” on October 23, 2014 as part of Weekly Seminar Series.
- (iv) Dr. Alok Kumar Gupta delivered a Lecture on Political Scenario in Bangladesh: Implications for India” on January 22, 2014 as part of Weekly Seminar Series.
- (v) Dr. Prashant Kumar delivered a Lecture on “Changing dynamic of Indian Politics: Challenges and Prospects” on February 5, 2014 as part of Weekly Seminar Series.
- (vi) Dr. Pranav Kumar delivered a Lecture on “Emerging Geo-politics of Indian Ocean: Imperatives for India” on February 19, 2014 as part of Weekly Seminar Series.

31) Code of ethics for research followed by the departments:

CPS ethics is in consonance with the Research Ethics of the University as a whole, with special emphasis on the fact that the Research is genuine, and in accordance with the established principles. Its main ethic is that it must be relevant towards problems of society at national or international level. As far as possible it should contribute towards resolving social, political, cultural and economic conflicts and problems in our society. It also aims that the Research Program must not produce non-employable youth in the country.

32) Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
Year-2013-15		01	03	100 %	100%
Year-2014-16		00	03	Nil	66%
Year 2015-2017		05	02	----	----
Integrated MPhil Phd from 2014 onward		02	01		



33) Diversity of students :

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MPhil PhD	50%	50%	NIL	NIL
PG	-----	100%	NIL	Nil
				Nil

34) How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:
One Student got UGC-JRF in 2015

35) Student progression:

Student progression	Percentage against enrolled
UG to PG	NIL
PG to M.Phil.	25%
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	NIL NIL
Entrepreneurs	

36) Diversity of staff: All Four Assistant Professors and One Associate Professor are Doctorate.

Percentage of Faculty who are graduates	
Of the same University	NIL
From Other Universities within the State	NIL
From universities from other states	100%
Universities outside the country	NIL

37) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period – None



38) Present details of departmental infrastructural facilities with regard to

- (a) **Library** :- No Department Library; Centralised Library System
- (b) **Internet facilities for staff and students** :- Adequate/Proper Internet facilities for staff and students.
- (c) **Total number of class rooms**:- 4 (four).
- (d) **Class rooms with ICT facility** :- All Class rooms are equipped with ICT facilities.
- (e) **Students' laboratories** :- NIL
- (f) **Research laboratories** :- NIL

39) List of doctoral, post-doctoral students and Research Associates : Two students enrolled in Integrated M.Phil. - Ph. D Programme.

40) Number of post graduate students getting financial assistance from the university:
ONE

41) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. Yes, through Board of Studies meeting involving experts and Professors

42) Does the department obtain feedback from

- (a) There is Teacher evaluation system/mechanism by students at the end of each Semester and feedback is utilized by taking extra/remedial classes.
- (b) Board of Examiners (BOE) after End Semester Examination- check/evaluate the End Semester Answer Booklets and syllabus and Questions and separate report is submitted by the BOE to the University. Later on Feedback is utilized by incorporating the suggestions.
- (c) NIL.

43) List the distinguished alumni of the department (maximum 10) : None

44) Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.: None; Special lectures are organized as and when necessary inviting resource persons available at local and national level.

45) List the teaching methods adopted by the faculty for different programmes.

- Classroom teaching
- Continuous Internal Evaluation Test
- Oral Presentation
- Regular Assignments
- Distribution of Hand-outs, Course Material and Articles from different National & International Journals.
- Weekly Lecture Series
- Class-Presentation/Discussion
- Participative and Collaborative Learning.



46) How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- Through Continuous Assessment Method
- Centre Committee meeting of Faculty Members and performance of Students are discussed and remedial measures are devised if there is need for it.

47) Highlight the participation of students and faculty in extension activities.

1. Weekly Seminar
2. Invited inter-disciplinary lectures
3. Participation of Faculty in different Seminars/Conferences/Workshops. Publications in national and international journals, Chapters in Books.

48) Give details of “beyond syllabus scholarly activities” of the department:
Students participate in various activities such as MTTs (Mathematics Training and talent search programme funded by National Board of Higher Mathematics), Summer internship at IITS, IISER, NISER and HRI.

49) State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: No

50) Briefly highlight the contributions of the department in generating new knowledge, basic or applied. Yet to start; as the University is New and Centre started functioning in 2012 only. Therefore, it is being planned.

51) Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths of the Centre for political studies :-

- Faculty are well qualified, vibrant and equipped with modern teaching-learning skills to improve and provide the quality research and education.
- Diversities of specialization among faculty members are the strength of the Centre.
- Teaching Publishing papers and Articles bilingually is an asset to the Centre.
- Young, Motivated and highly ambitious faculty members are the real strength of the Centre as they are more than eager to take the challenges of devising new teaching-learning skills to maximize knowledge and learning of students.
- Extensive approach while deliberating in the class along with interdisciplinary integrated learning is the unique feature of Faculty in the Centre.

Weaknesses and Opportunities:

- Since the institution as well as the Centre is in its infancy there is bound to be problems and it gets maximized further due to absence of our own campus. However, the same turn out to be an opportunity as it provides experience to maximize one's output in spite of several odds and it hardens the faculty to work in all kinds of circumstances.
- Library is still in the process of evolution, hence there is increased dependence on Digital Resources. However, the Hard Library is also a necessity which requires to be expanded with all modern tools of learning. The weakness is that there is lack of



full-fledged established library and the opportunity is that the same is being created slowly and gradually by the faculty in collaboration with Library personnel.

- Since the University lacks its own campus the other recreation facilities are a bottleneck as it helps rejuvenate the students and faculty which further helps to maximize their learning.

52) Future plans of the department.

- Centre is planning to start Certificate/Diploma/Degree Course in Human Rights as well as Defence and Security Studies which shall be an Interdisciplinary programme and it would help interaction with the other disciplines within the University.



Evaluative Report of Centre for Economic Studies and Policies

Centre for Economic Studies and Policies

- 1) **Name of the Department:** Centre for Economic studies and Policies
- 2) **Year of establishment:** 2012
- 3) **Is the Department part of a School/Faculty of the university?** Yes, School of Social Sciences
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**
 - M.A. (Economics)
 - Integrated MPhil-Ph.D. in Economics
- 5) **Interdisciplinary programmes and departments involved:** NA
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc.:** NA
- 7) **Details of programmes discontinued, if any, with reasons:** None
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System:** Semester
- 9) **Participation of the department in the courses offered by other departments:**
 - The Centre helps in teaching of economics courses of B.A. B.Ed. and B.A. LLB.programmes being offered by School of education and School of Law and Governance respectively.
 - It participates in teaching of few courses of M.A. (Sociology),
 - M.A. (Development Studies),
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate**

Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	0	0
Associate Professor	02	0	Nil
Asst. Professor	04	2+ 1* (*Contract)	2+ 1* (*Contract)
Others	Nil	Nil	Nil



11) Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. Of Years of Experience	No. of Ph.D./ M.Phil. students guided/guiding for the last 4 years
Atish Kumar Das	M.Phil (Economics)	Assistant Professor	Applied Macroeconomics & Finance, Applied Econometrics	3	1
Tophan Patra	Ph.D. (Economics)	Assistant Professor (On Contract)	Microeconomics, Industrial Economics, Applied Econometrics	2	Nil
Abodh Kumar	Ph.D. (Economics)	Assistant Professor	Development Economics, Labour Economics	2	1

12) List of senior Visiting Fellows, adjunct faculty, emeritus professors: Nil

13) Percentage of classes taken by temporary faculty – programme-wise information: Nil

14) Programme-wise Student Teacher Ratio

M.A. (Economics):	5:1
M.Phil-Ph.D.:	1: 3
B.A. B.Ed.:	14:1
B.A.LLB:	30:1

15) Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : Centralised Office System

16) Research thrust areas as recognized by major funding agencies: Nil

17) Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise: Nil

18) Inter-institutional collaborative projects and associated grants received

a) National collaboration: Nil b) International collaboration: Nil



19) Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. NIL

20) Research facility / centre with

- state recognition : Nil
- national recognition : Nil
- international recognition: Nil

21) Special research laboratories sponsored by / created by industry or corporate bodies:
Nil

22) Publications:

Dr. Abodh Kumar :- 01

1. “Determinants of Women’s Labour Supply in Urban Unorganised Sector in Mumbai”, (Forthcoming) *The Indian Journal of Labour Economics*.

Dr. Atish Kumar Dash:- 03

1. Demographic Transition, Savings, and Economic Growth in China and India, IEG Working Paper No. 351, 2015 (Co-authored with William Joe and PradeepAgrawal).
2. Elderly: Does Count or Charecteristics Matter? *The Journal of Aging in Emerging Economies (JAE)*, Vol. 3, No. 1, 2011 (Co-authored with U S Mishra)
3. ‘On Explaining the Industrial Output Volatility in India’, The Indian Econometric Society’s Annual Conference, Patna University during January 09-10, 2013.

* Number of papers published in peer reviewed journals (national / international):

04

* Monographs: Nil

* Chapters in Books

* Edited Books: Nil

* Books with ISBN with details of publishers: Nil

* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.): 3

* Citation Index – range / average

* SNIP

* SJR

* Impact Factor – range / average

* h-index

23) Details of patents and income generated: Nil



24) Areas of consultancy and income generated: Nil

25) Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad : Nil

26) Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify): Nil

27) Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

- Orientation Programme: 01,
- Workshop: 01.

28) Student projects

- percentage of students who have done in-house projects including inter-departmental projects : Nil
- percentage of students doing projects in collaboration with other universities/ industry / institute : Nil

29) Awards / recognitions received at the national and international level by

- Faculty :
 - Abodh Kumar: Inspired Teacher Residential Programme of 2015 initiated by Honorable President of India
- Doctoral / post doctoral fellows : Nil
- Students : Nil

30) Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any. Nil

31) Code of ethics for research followed by the departments: Nil

32) Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2012-14		04	02	100%	0%
2013-15		07	06	50%	50%
2014-16		05	03		
2015-17 Integrated MPhil Phd		03 00	05 01		



33) Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.A.	00	89	11	00

34) How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.:

01 General category

35) Student progression

Student progression	Percentage against enrolled
UG to PG	NA
PG to M.Phil.	Nil* (*40 % progressed to other universities for M.Phil. and PhD)
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	NA
Entrepreneurs	NA

36) Diversity of staff:

Percentage of faculty who are graduates of	
the same University	
from other universities within the State	
from universities from other States	100%
from universities outside the country :	



37) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38) Present details of departmental infrastructural facilities with regard to

- a. **Library** : No; Central Library is being used by students and faculty
- b. **Internet facilities for staff and students:** Available for all
- c. **Total number of class rooms:** 01
- d. **Class rooms with ICT facility** : Available (01)
- e. **Students' laboratories** : University Computer Lab
- f. **Research laboratories:** Nil

39) List of doctoral, post-doctoral students and Research Associates

- **from the host institution/University** : nil
- **from other institutions/universities** : 1

40) Number of post graduate students getting financial assistance from the university: 03

41) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. Nil

42) Does the department obtain feedback from

- (a) **faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?** Yes, through Centre committee and Board of Studies.
- (b) **students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?** Yes, through online assessment of each course at the end of semester.
- (c) **alumni and employers on the programmes offered and how does the department utilize the feedback?** Not applicable

43) List the distinguished alumni of the department (maximum 10): Nil

44) Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. Nil

45) List the teaching methods adopted by the faculty for different programmes.

- i. ICT based interactive learning
- ii. Learning with the Society through field surveys

46) How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? Through Centre Committee and Board of Examiners meeting.

47) Highlight the participation of students and faculty in extension activities. Nil



48) Give details of “beyond syllabus scholarly activities” of the department: Games & Sports, Cultural activities

49) State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. Nil

50) Briefly highlight the contributions of the department in generating new knowledge, basic or applied. Nil

51) Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths: Motivated faculties, up to date syllabus, summer training of students at institutes of national repute

Weaknesses: Less than required number of faculties

Opportunities: Opportunity to enhance various skills of faculty members.

Challenges: to increase research output and to attract more number of “quality” students

52) Future plans of the department.

- To undertake research projects funded by national/international agencies/ organisations.
- To build academia-industry interface in terms of curriculum development and employment opportunities.
- Student exchange programme with foreign universities.
- To conduct workshops/ seminars/invited lectures on research methods and contemporary issues of relevance to Bihar and Indian economy.



Evaluative Report of Centre for Sociological Studies

Centre for Sociological Studies

- 1) **Name of the Department:** Centre for Sociological Studies
- 2) **Year of establishment:** 2012
- 3) **Is the Department part of a School/Faculty of the university?** : Yes,
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)** : Master Programme in Sociology
- 5) **Interdisciplinary programmes and departments involved:** Yes, Organized
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc. :**
None
- 7) **Details of programmes discontinued, if any, with reasons:** None
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**
Semester/Choice Based Credit System
- 9) **Participation of the department in the courses offered by other departments:** Yes;
BA.BEd & BA.LLB
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):**

	Sanctioned	Filled	Actual Including CAS &MPS
Professor	01	0	Nil
Associate Professor	02	0	Nil
Asst. Professor	04	02+01* (*contract)	03
Others			

- 11) **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M. Phil students guided/guiding for the last 4 years
Dr. Jitendra Ram	Ph.D.	Asst. Professor	Dalit Studies Social, Stratification, Social Exclusion	More than Three Years	No
Dr. Haresh Narayan Pandey	Ph.D.	Asst. Professor	Globalization, Modernisation, Development,	More than Six Years	Five



			Technology, Culture, Identity		
Dr. Ambrish Gautam	Ph.D.	Asst. Professor	Globalization, Tribal Studies, Migration and Social Change	More than four years	No

12) List of senior Visiting Fellows, adjunct faculty, emeritus professors: Nil

13) Percentage of classes taken by temporary faculty – programme-wise information:
30% (Approx.) NA.

14) Programme-wise Student Teacher Ratio : (91/3) students/teachers (including BA. BEd; BA.LLB & Master Programme in Sociology): **30:01**

15) Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: N/A-Centralized Office System

16) Research thrust areas as recognized by major funding agencies: Dalit Studies, Social exclusion, Globalization, Tribal Studies, Modernization, Migration, Culture, Identity, Development, etc.

17) Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. : Not applicable

18) Inter-institutional collaborative projects and associated grants received

a) National collaboration: Nil b) International collaboration: Nil

19) Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : Nil

20) Research facility / centre with

- state recognition : Nil
- national recognition : Nil
- international recognition : Nil

21) Special research laboratories sponsored by / created by industry or corporate bodies:
Nil

22) Publications:

Dr Haresh Narayan Pandey:- 05

Book:

1. “Globalisation and Identity” has been accepted for publication by Rawat Publications, New Delhi in March, 2014.



2. A paper titled “Public Sphere and Globalisation” has been presented in 39th ISS National Conference on theme “Inequality, Social Justice and Empowerment” organised by Department of Sociology, Karnataka State Open University, Mysore on 27th-29th December, 2013.
3. A paper titled “Globalisation, Democracy and Democratic Space” has been presented in an International Conference on theme “Social Institutions: Challenges and Solution” organised by Department of Sociology, Mahatma Gandhi Kashi Vidyapith, Varanasi on 18th – 19th January, 2014.
4. A paper titled “Globalisation and Social Change ” has been presented in a National Conference on theme “Social Transformation among Schedule Caste & Tribal Communities of Mountain Regions: Myth or Reality” organised by Department of Sociology, School of Social Sciences, Uttarakhand Open University, Haldwani (Nainital) during 10th -11th October, 2014.
5. A Paper titled “What Is Development” has been accepted for presentation in 40th ISS National Seminar on theme “Development, Diversity and Democracy ” organised by Department of Sociology, Mahatma Gandhi Kashi Vidyapith, Varanasi during 27th November – 1st December, 2014.

Dr Ambrish Gautam:- 03

1. A Book entitled “**Tribals in Global Era: Society & Economy**”, Published by Common Wealth Publishers, New Delhi, in January 2014, ISBN-8131105075.
2. A research Paper has been published on the topic “**Tribal Self-Governance and Women of Santhal Parganas in Jharkhand: A Sociological Study**”, in the 7th Issue of JRR (Jamshedpur Research Review), Year II, Vol. 2, Issue VII, June-August 2014, ISSN No- 23202750, From Gyan Jyoti Educational and Research Foundation (Trust), Jamshedpur, Jharkhand.
3. A Research Paper on the topic “**Emergence of Gender Discrimination Among Girls Child: A Case Study of Khunti District**” has been accepted for presentation in 5th National Seminar on Society, State, Law and We the People of India, Organized by All Indian Rights Organization and Indian Association of Social Scientists, Lucknow Law College, Lucknow University, Lucknow on 12th-13th November, 2014.

Dr Jitendra Ram: - 01

1. Accepted an article for *Indian Journal of Dalit and Tribal Studies* on the topic “Understanding Caste Hierarchy and Dalits in Bihar” on 25th March 2014.
- **Number of papers published in peer review journals- 06**
 - **Monograph- Nil**
 - **Chapters in books-03**
 - **Edited books-0**
 - **Books with ISBN with details of publishers-02,** (One Published by Commonwealth Publishers, and One Communicated/Accepted by Rawat Publishers, New Delhi)
 - **Number listed in international data base-0**



- *Citation index-0*
- **SNIP-0**
- **SJR-0**
- **Impact factor-0**
- **h-index-0**

23) Details of patents and income generated: Nil

24) Areas of consultancy and income generated: Nil

25) Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad : Nil

26) Faculty serving in

- a. National committees: No
- b. International committees : No
- c. Editorial Boards : No
- d. any other (please specify)

27) Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): 02 and 01 Applied for

28) Student projects

- **percentage of students who have done in-house projects including inter-departmental projects : 07**
- **percentage of students doing projects in collaboration with other universities/ industry / institute : Nil**

29) Awards / recognitions received at the national and international level by

- **Faculty :** All Faculty are awarded National UGC JRF/SRF Fellowship
- **Doctoral / post-doctoral fellows :** All had been Doctoral Fellow
- **Students :** Nil

30) Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any. : N.A.

31) Code of ethics for research followed by the departments: To support innovative ideas, promote new kind of research module, use of scientific method is supported; students are encouraged to involve themselves in research.



32) Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
M.A. Sociology					
2012-14		03	03	50%	50%
2013-15		03	01	75%	25%
2014-16		00	01	50%	50%
2015-17		01	01		

33) Diversity of students :

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the state	% of students from universities outside the State	% of students from other countries
M.A. Sociology	NIL	89	11	NIL

34) How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. :

One student cleared JNU Integrated M.Phil./Ph.D Programme and One student cleared Railway Recruitment Board Exam (RRB)

35) Student progression: One Batch passed out.

36) Diversity of the staff

Percentage of faculty who are graduates	
Of the same university	N/A-0
From other universities within the state	01(33%)
Universities from other states	02 (67%)
Universities outside the country	N/A-0

37) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38) Present details of departmental infrastructural facilities with regard to

(a) Library-Nil



- (b) Internet facilities for staff and students –Yes
- (c) Total number of class room-01
- (d) Class room with ICT facilities-Yes
- (e) Students laboratory-N/A
- (f) Research laboratories-N/A

39) List of doctoral, post-doctoral students and Research Associates

- a. from the host institution/University : Nil
- b. from other institutions/universities : Nil

40) Number of post graduate students getting financial assistance from the university. : 02

41) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. : No

42) Does the department obtain feedback from

- a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes, we take their feedback seriously and improve accordingly.
- b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? : Centre has suggested the staffs to give priority to the students matter, faculty in centre give students time out of class whenever they require.
- c) Alumni and employers on the programmes offered and how does the department utilize the feedback? : No

43) List the distinguished alumni of the department (maximum 10): No

44) Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. :

- A Special lecture on“Social Science in a Post-national World: Towards a Contemporary Politics of Location” given by Prof. Satish Deshpande in September, 2012.
- A Special lecture on“Emerging Trends of Qualitative Method in Social Science Research” given by Prof. S. M. Patnaik in December, 2013.
- Centre organized six lecture for MA Sociology students for the course “Sociology of Family and Marriage” in December 2013.

45) List the teaching methods adopted by the faculty for different programmes.:

Projector/Compute/Internet, participatory teaching, graphical and pictorial presentation, assignment, review, class test, mid and End term examination, etc.

46) How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? : Through the continuation evaluation of the students, surprised test, summer Internship, give chance to students to participate in various educational and cultural programmes of the university.



47) Highlight the participation of students and faculty in extension activities: Faculty and students participate in various University programme like Annual Day, Foundation Day, Independence Day, Republic Day, Teachers Day, Swachchha Bharat Abhiyan, National Unity Day, Hindi Pakhwada, Weekly seminar Series, Organizing various talks on Dr. B.R. Ambedkar, Babu Jagjivan Ram, Maulana Azad, etc.

48) Give details of “beyond syllabus scholarly activities” of the department. As following

Dr Jitendra Ram- Academic Activities

Head-In-Charge, Assistant Professor

- Presented a paper entitled “ Social Exclusion and Status Formation among Dalits in Bihar” in a National Seminar titled “**Dalit Studies: Continuity and Change**”organised by Dr. Ambedkar Chair, CSSS/SSS, JNU, New Delhi on 20-21 March 2014.
- Delivered a Lecture on “**Social Exclusion and Status Formation among Dalits**” under Weekly Seminar Series on 12.02.2014, at CUB, Gaya Campus.
- Delivered a lecture on “**Remembering Dr. B. R. Ambedkar**” under Barsa on 16.04. 2014, at CUB, Gaya Campus.
- Delivered a lecture on “**106th Birth Anniversary of Babu Jagjivan Ram**” on 5th of April 2014, at CUB, Gaya Campus.
- Accepted an article for *Indian Journal of Dalit and Tribal Studies* on the topic “Understanding Caste Hierarchy and Dalits in Bihar” on 25th March 2014.

Dr. Ambrish Gautam-Academic Activities

Assistant Professor

- A Book entitled “ **Tribals in Global Era: Society& Economy**”, Published by Common Wealth Publishers, New Delhi, in January 2014, ISBN-8131105075
- Delivered a Lecture on “**Indian Cinema and Social change In India**” in a Two-Days Seminar on theme “**100 Years of Indian Cinema**”, organised by Centre for Foreign Languages on 29th March, 2014, at CUB, Gaya Campus.
- A research Paper has been published on the topic “ **Tribal Self-Governance and Women of Santhal Parganas in Jharkhand: A Sociological Study**”, in the 7th Issue of JRR (Jamshedpur Research Review), Year II, Vol. 2, Issue VII, June-August 2014, ISSN No- 23202750, From Gyan Jyoti Educational and Research Foundation (Trust), Jamshedpur, Jharkhand
- A Research Paper on the topic “**Emergence of Gender Discrimination Among Girls Child: A Case Study of Khunti District**” has been accepted for presentation in 5th National Seminar on Society, State, Law and We the People of India, Organized by All Indian Rights Organization and Indian Association of Social Scientists, Lucknow Law College, Lucknow University, Lucknow on 12th-13th November, 2014.



Dr. Haresh Narayan Pandey

Assistant Professor

- A Book titled “Globalisation and Identity” has been accepted for publication by Rawat Publications, New Delhi in March, 2014.
- Contributed a chapter on “Globalisation and Village Identity” in Manvendra Singh, (ed.), *Social Development in India*, Bharat Book Centre, Lucknow.
- Contributing a chapter on *Greening Development* in a book entitled “Globalisation, Environment and Social Justice”. (Solicited)
- Co-chaired the technical session –II- Scheduled Castes and Scheduled Tribe Communities in Era of Globalisation, in a National Conference on theme “Social Transformation among Schedule Caste & Tribal Communities of Mountain Regions: Myth or Reality” organised by Department of Sociology, School of Social Sciences, Uttarakhand Open University, Haldwani (Nainital) during 10th -11th October, 2014.
- A paper titled “Public Sphere and Globalisation” has been presented in 39th ISS National Conference on theme “Inequality, Social Justice and Empowerment” organised by Department of Sociology, Karnataka State Open University, Mysore during 27th-29th December, 2013.
- A paper titled “Globalisation, Democracy and Democratic Space” has been presented in an International Conference on theme “Social Institutions: Challenges and Solution” organised by Department of Sociology, Mahatma Gandhi Kashi Vidyapith, Varanasi during 18th – 19th January, 2014.
- A paper titled “Globalisation and Social Change” has been presented in a National Conference on theme “Social Transformation among Schedule Caste & Tribal Communities of Mountain Regions: Myth or Reality” organised by Department of Sociology, School of Social Sciences, Uttarakhand Open University, Haldwani (Nainital) during 10th -11th October, 2014.
- A Paper titled “What Is Development” has been presented in 40th ISS National Seminar on theme “Development, Diversity and Democracy” organised by Department of Sociology, Mahatma Gandhi Kashi Vidyapith, Varanasi during 27th November – 1st December, 2014.
- Delivered a Lecture on “Film and Tradition in India” in a Two Days Seminar on theme “100 Years of Indian Cinema”, organised by Centre for Foreign Languages in March, 2014, at CUB, Gaya Campus.
- Delivered a lecture on “National Unity Day” in a Panel Discussion organised by Central University of Bihar, at CUB, Gaya Campus on 31st October, 2014.
- A Paper titled “Development and Environment” has been accepted for presentation in 41th ISS National Conference to be organised by KIIT, Bhubneshwar, Odisha during 27th – 29th December, 2015.
- Attended Four Weeks Orientation Programme in Academic Staff College (ASC), Jawaharlal Nehru University, New Delhi during 23rd February to 20th March, 2015.

49) State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : No

50) Briefly highlight the contributions of the department in generating new knowledge,



basic or applied. : Contributing in writing books and articles, presenting research papers and participation in different national and International Conferences and Seminars, etc.

51) Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths-----

All Faculties are doctorate, all are UGC-NET/JRF/SRF, and all studied from reputed institutes of India, all are expertised in very contemporary and relevant areas like Dalit Studies, Social, Stratification, Social Exclusion, Globalization, Development, Technology, Culture, Identity, Globalization, Tribal Studies.

Weaknesses---

Space and infrastructure problem, lack of faculty; lack of departmental Library, Absence of M.Phil/ Ph.D. Programme, lack of staff and other facilities in department.

Opportunities—

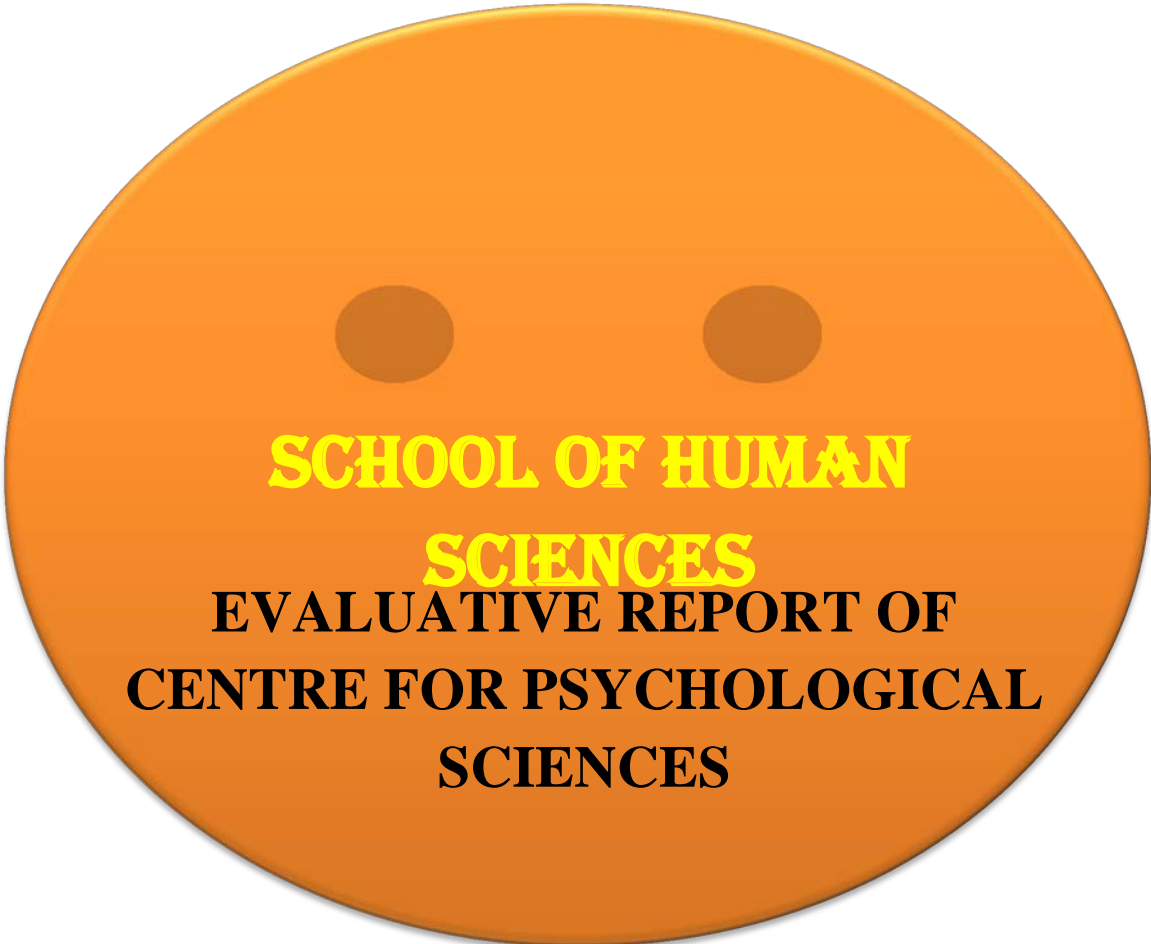
New established Centre, collaboration with other institutions, placement for students in various organisations, organising National/International conference/Seminar/workshop, and formulating and offering various new courses of contemporary relevance.

Challenges--

Lack of Professor/Associate Professor, attracting students from various corners of the country, establishing this centre of National/International repute, creating a visual contribution of centre in Nation-Building, and inculcating global composite academic culture.

52) Future plans of the department.

- To start M.Phil./Ph.D. Programme
- Bringing various academic projects
- Organizing academic programmes-Seminar, Symposium, Conference, workshop, Lecture and Talk, etc.



**SCHOOL OF HUMAN
SCIENCES**
**EVALUATIVE REPORT OF
CENTRE FOR PSYCHOLOGICAL
SCIENCES**



Centre for Psychological Sciences

- 1) **Name of the Department:** Centre for Psychological Sciences
- 2) **Year of establishment:** 2011
- 3) **Is the Department part of a School/Faculty of the university?** : Yes
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)** : Post Graduate and Integrated M.Phil-Ph.D
- 5) **Interdisciplinary programmes and departments involved** : Not Applicable, Open Courses offered for Human & Social Sciences Students
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
No
- 7) **Details of programmes discontinued, if any, with reasons:** Not Applicable
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**
Semester System
- 9) **Participation of the department in the courses offered by other departments:** Nil
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	Nil	Nil
Associate Professors	02	Nil	Nil
Asst. Professors	04	03	03
Others	Nil	Nil	Nil

- 11) **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided/guiding for the last 4 years
Dr Narsingh Kumar	Ph.D.	Assistant Professor	Organizational Behaviour	03 years on 26 th July 2015	Nil
Dr.Manglesh Kumar	Ph.d	Assistant	Clinical	03 years on 26 th July	Nil



Manglam	Ph.D.	Professor	Psychology	2015	Nil
Dr. Das Ambika Bharti	Ph.D.	Assistant Professor	Clinical Psychology and Positive Psychology	03 years on 26 th July 2015	Nil

12) List of senior Visiting Fellows, adjunct faculty, emeritus professors :

Dr.Ramadhar Singh, Professor, IIM, Bangalore (sometimes for special Lectures)
Prof.JanakPandey, Fellow ICSSR (as Board of Studies Member)

13) Percentage of classes taken by temporary faculty – programme-wise information:

10%

14) Programme-wise Student Teacher Ratio: Master Programme - 4:1, M.Phil-Phd. – 1:1.5

15) Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: One Administrative Staff (LDC)

16) Research thrust areas as recognized by major funding agencies: None

17) Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. : None

18) Inter-institutional collaborative projects and associated grants received: None

a) National collaboration b) International collaboration

19) Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : None

20) Research facility / centre with :

- state recognition : No
- national recognition :No
- international recognition : No

21) Special research laboratories sponsored by / created by industry or corporate bodies:
None

22) Publications:

Dr. Narsingh Kumar: - 01

1. **Kumar, N. & Tripathi, N. (2011).** The effect of role ambiguity and role conflict on stress and job satisfaction in Indian call centre agents: moderating role of coworker support. Identity, Multiculturalism and Changing Societies, *Progress in Asian Social Psychology* 187-196.

Ms. Das Ambika Bharti :- 04



1. Bharti, A. D. & Mukhopadhyay, A. (2011). Rumination and Deficient Positive Affectivity as Predictors of Quality of Life among Hypertensive Patient. *Indian Journal of Clinical Psychology*, 38 (2), 141-150. ISSN: 0303-2582
2. Bharti, A. D., & Mukhopadhyay, A. (2011). Role of Positive Emotion in Human Flourishing. *International Journal of Global Values*, 2 (1), 177-191. ISSN: 0976-9447.
3. Bharti, A. D. & Mukhopadhyay, A. (2012). Emotion Regulation, Rumination and Quality of Life: A Comparison of Type D and non-Type D Hypertensive Patients. *Journal of Indian Health Psychology*, 6 (2), 143-152. ISSN No.: 0973-5755.
4. Bharti, A. D. & Mukhopadhyay, A. (2012). Positive Intervention among Hypertensive Patients. In S. Ojha (Ed.), *Positive Psychology: Emerging Issues*, 2, (pp.381-390). New Delhi: Shree Publishers & Distributors. ISBN No.: 978-81-8329-473-79.

Dr.Manglesh Kumar Manglam:- 02

1. **Manglam M. K.**, Sinha V. K., Praharaj S. K., Bhattacharjee D., and Das A. (2013). Personality correlates of accident-proneness in auto-rickshaw drivers in India. *International Journal of Occupational Safety and Ergonomics*, 19(2), p. 159-165.
2. **Manglam, M. K.**, & Das, A. (2013). Verbal learning and memory and psychopathology in schizophrenia. *Asian Journal of Psychiatry*, 6 (5), p. 417-420.

- * **Number of papers published in peer reviewed journals (national / international) = 07**
- * **Monographs - Nil**
- * **Chapters in Books- 01**
- * **Edited Books -Nil**
- * **Books with ISBN with details of publishers:-Nil**
- * **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) : Nil**
- * **Citation Index–range/average :Nil**
- * **SNIP : Nil**
- * **SJR : Nil**
- * **Impact Factor–range/average: Nil**
- * **h-index : Nil**



- 23) **Details of patents and income generated:** None
- 24) **Areas of consultancy and income generated:** None
- 25) **Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad :** None
- 26) **Faculty serving in**
- a) **National committees** b) **International committees** c) **Editorial Boards** d) **any other (please specify) – None**
- 27) **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):-** Orientation and refresher programmes for faculty
- 28) **Student projects**
- **percentage of students who have done in-house projects including inter-departmental projects – 100%**
 - **percentage of students doing projects in collaboration with other universities/industry / institute – 100%**
- 29) **Awards / recognitions received at the national and international level by**
- **Faculty – None**
 - **Doctoral / post-doctoral fellows – None**
 - **Students – None**
- 30) **Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.:** Workshop on “Behavioural Skills for Effective Living” organized source of funding – Parent Institution on 8th March 2014
- 31) **Code of ethics for research followed by the departments:** University rules and regulations are followed
- 32) **Student profile programme-wise:**

Name of the Programme	Session	Selected		Pass percentage	
		Male	Female	Male	Female
MA (Psychology)	2011-13	01	04	100%	100%
MA (Psychology)	2012-14	Nil	03	Nil	100%
MA (Psychology)	2013-15	01	02	Dropped Out	100%
MA (Psychology)	2014-16	03	04	Not applicable	Not applicable
MA (Psychology)	2015-17	2	3	Not applicable	Not applicable



MPhil- Ph.D(Psychology)	2015-17	0	2	Not applicable	Not applicable
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33) Diversity of students :

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MA (Psychology)	Nil	70%	30%	Nil

**34) How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.:
02 ; One qualified UGC JRF and one selected in CIP Ranchi**

35) Student progression:

Student progression	Percentage against enrolled
UG to PG	Not Applicable
PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	50%
Employed	
<input type="checkbox"/> Campus selection	Nil
<input type="checkbox"/> Other than campus recruitment	Nil
Entrepreneurs	Nil

36) Diversity of staff

Percentage of faculty who are graduates of the same University	0%
from other universities within the State	0%
from universities from other States from	100%
universities outside the country	0%

37) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period – One

38) Present details of departmental infrastructural facilities with regard to



- a. **Library** : No
- b. **Internet facilities for staff and students-** yes
- c. **Total number of class rooms** -02
- d. **Class rooms with ICT facility** : yes
- e. **Students' laboratories** : yes
- f. **Research laboratories** : yes

39) List of doctoral, post-doctoral students and Research Associates

- **from the host institution/University** : None
- **from other institutions/universities** : None

40) Number of post graduate students getting financial assistance from the university: 01

41) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology: Yes, through Board of Studies meeting involving experts and Professors

42) Does the department obtain feedback from

- (a) **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?** : Yes, through Board of examiners and Centre committee meetings. Feedback is used for upgrading the syllabus and teaching methodology.
- (b) **Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?** : Yes, through Course Assessment Evaluation, Feedback is used for upgrading teaching and learning strategies.
- (c) **Alumni and employers on the programmes offered and how does the department utilize the feedback?** : None

43) List the distinguished alumni of the department (maximum 10): None

44) Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Workshop and Special Lectures are organized time to time. Delivered an open talk on “ Behaviour and Climate Change” on 26th March 2014 under cluster 2nd (School of Social Sciences and Policy and School of Human Sciences)

Lecture on Managing stress at the world Mental Health Day on 10th October 2013.

Lecture on Emotional Growth with Assertiveness at Mental Health Day on 10th October 2013

45) List the teaching methods adopted by the faculty for different programmes: Chalk and Talk, PPT, ICT, Continuous Evaluation

46) How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? Through Continuous Evaluation of Students,



Students counselling for higher education, Research and other achievements

- 47) **Highlight the participation of students and faculty in extension activities:** Students participate in various activities such as Internship program, social activities. Faculty attends conferences, Seminars etc.
- 48) **Give details of “beyond syllabus scholarly activities” of the department :** Students participate in various activities such as Internship program, social activities
- 49) **State whether the programme/ department is accredited/ graded by other Agencies? If yes, give details :** Yes , to be filled up by Academic Section
- 50) **Briefly highlight the contributions of the department in generating new Knowledge, basic or applied:** Faculty are involved in Research Activities and also train students for basic and applied research.

51) **Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

Strength : Faculty from Reputed Indian Institutions such as IIT, CIP Ranchi, BHU., Infrastructure and ICT facilities, Laboratory and Library.

Weakness: Lack of Awareness amongst prospective students regarding Institution and available facilities.

Opportunities: Quality Research Facilities and quality higher education for prospective Students.

Challenges: Increasing awareness amongst public and beneficiaries about the Institution and its educational & Research facilities.

52) **Future plans of the department.**

1. Making Centre for Excellence in Cognitive Sciences and Cognitive Psychology
2. Mental Health Awareness programmes for communities in Bihar
3. Workshop on various subjects for benefits of research students and other beneficiaries.



School of Media, Arts & Aesthetics

**SCHOOL OF MEDIA,
ARTS &
ASTHETICS**

- Centre for Mass Communication and Media



Evaluative Report of Centre for Mass Communication and Media



Centre for Mass Communication & Media

- 1) **Name of the Department:** Centre for Mass Communication & Media
- 2) **Year of establishment:** 2011
- 3) **Is the Department part of a School/Faculty of the university?** : Yes
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)** : Post Graduate Programme
- 5) **Interdisciplinary programmes and departments involved:** Development Communication and Communication skills are offered as open course. Any student from post graduate programme can opt for these courses. Students of Development studies have been opting for Development Communication from last two academic years.
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
No
- 7) **Details of programmes discontinued, if any, with reasons** : No
- 8) **Examination System:** Annual/Semester/Trimester/Choice Based Credit System:
Semester.
- 9) **Participation of the department in the courses offered by other departments:** No
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	Nil	Nil
Associate Professors	02	Nil	Nil
Asst. Professors	04	02	02
Others (Contractual)		01 Asst. Prof.	01



11) Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D./ M.Phil. students guided/ guiding in last 4 years
1. Dr.KinshukPathak	UGC-NET, Ph.D	Assistant Professor	Print Journalism, Editing, Reporting, Advertising , TV Production	July, 2011 onwards.	Nil
2. Mr.Sujeet Kumar	UGC-NET/JRF, pursuing Ph.D.	Assistant Professor	Online Journalism & New Media, Development Communication	July, 2012 onwards..	Nil
3. Dr.Anindya Deb (Contract)	UGC-NET, Ph.D	Assistant Professor	New Media Management, Communication Research, Public Relations , TV Production	On contract	Nil

12) List of senior Visiting Fellows, adjunct faculty, emeritus professors:

- Professor Iftekhhar Ahmad
- Professor Devesh Kishor
- Professor Subhash Dhuliya
- Professor BK Kuthiala
- Professor NAK Durrani

13) Percentage of classes taken by temporary faculty – programme-wise information:
30%

14) Programme-wise Student Teacher Ratio: 11:1

15) Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: One administrative staff (LDC)

16) Research thrust areas as recognized by major funding agencies : NO

17) Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. No



18) Inter-institutional collaborative projects and associated grants received

- a) **National collaboration:** Nil
- b) **International collaboration:** Nil

19) Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: No

20) Research facility / centre with: No

- state recognition
- national recognition
- international recognition

21) Special research laboratories sponsored by / created by industry or corporate bodies: No

22) Publications:

Dr. Kinshuk Pathak :- 02

1. Manva adhikaron ke samkalin sandarbh aur janamadhyam published in “*Communication Today*” Jaipur, Rajasthan (Media quarterly journal)
2. Samachar patron ka badalta swaroop published in “*Communication Today*” Jaipur, Rajasthan (Media quarterly journal)

Books Chapter

1. Yashsvi Ahindi bhashi-University Publications-New Delhi-ISBN-978-81-7555-550-1
2. Book on New Media published in Hindi-University Publications New Delhi Title-Naya Media Naye Ayam-ISBN-978-81-7555-309-5

Dr. Sujeet Kumar: - 03

1. Kumar, S. (June, 2012), Mass Movements and Social Media: Indian and Global Experience. Media Vimarsh, 130-133, 2249-0599
2. Kumar, S. (July-Dec, 2012), Cyber Culture: The Power of Group Democracy, Jan Sanchar Vimarsh, 28-31, 2277-3932
3. Kumar, S. (Apr-Sep, 2015), Interactive Online platforms and Group Participation, Media Communique, 67-78, 2395-3780



* **Number of papers published in peer reviewed journals (national /international)=**

Total 05

* **Monographs:** Nil

* **Chapters in Books**

* **Edited Books**

* **Books with ISBN with details of publishers**

* **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**

* **Citation Index – range / average**

* **SNIP**

* **SJR**

* **Impact Factor – range / average**

* **h-index**

23) Details of patents and income generated: No

24) Areas of consultancy and income generated: No

25) Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad: No

26) Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify): No

27) Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): One Faculty Mr. Sujeet Kumar has completed 4 week UGC sponsored orientation program, other faculty member have applied.

28) Student projects

percentage of students who have done in-house projects including inter-departmental projects: No

• percentage of students doing projects in collaboration with other universities industry / institute: No

29) Awards / recognitions received at the national and international level by

• Faculty : None

• Doctoral / post-doctoral fellows: Not Applicable



- **Students:** None

30) Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.

- One day seminar on Role of Media in facilitating social change.
- Four days workshop on still photography.

31) Code of ethics for research followed by the departments: Following the rules and regulation of University

32) Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Session	Selected		Pass percentage	
		Male	Female	Male	Female
MA (Communication & Media Studies)	2011-13	9	4	100%	100%
(Communication & Media Studies)	2012-14	9	7	100%	100%
MA (Communication & Media Studies)	2013-15	13	8	100%	100%
MA (Communication & Media Studies)	2014-16	10	18	-	-
MA (Communication & Media Studies)	2015-17	13	12	-	-

33) Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MA (Communication & Media Studies) 2014	Nil	84%	16%	Nil
MA (Communication & Media Studies) 2015	Nil	90	10	nil

34) How many students have cleared Civil Services and Defense Services examinations,



NET, SET, GATE and other competitive examinations? Give details category-wise. :
One student qualified in UGC NET and one student cleared MPhil examination and one student qualified in Bank PO Examination.

35) Student progression:

Student progression	Percentage against enrolled
UG to PG	Not Applicable
PG to M.Phil.	Not Applicable
PG to Ph.D.	Not Applicable
Ph.D. to Post-Doctoral	Not Applicable
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	03 05
Entrepreneurs	Nil

36) Diversity of staff :

Percentage of faculty who are graduates of	
the same university	Nil
from other universities within the State	Nil
from universities from other States from	100%
Universities outside the country	Nil

37) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: One regular faculty and one Contractual faculty

38) Present details of departmental infrastructural facilities with regard to

- | | |
|---|----------------|
| a. Library : | No |
| b. Internet facilities for staff and students : | Yes |
| c. Total number of class rooms: | 02 nos. |
| d. Class rooms with ICT facility: | Yes |
| e. Students' laboratories : | Not applicable |
| f. Research laboratories : | Not applicable |

39) List of doctoral, post-doctoral students and Research Associates



- a) from the host institution/University : No
b) from other institutions/universities : No

40) Number of post graduate students getting financial assistance from the University :

CUSBET-2015 Topper

1. MA Communication & Media Studies, Session -2015-17

Semester Topper

1. MA Communication & Media Studies, Session -2014-16

Merit cum Means Scholarship (MCM):

Fourth Semester (January – June 2015, Session 2013-15)

S No	Name of Students	Category	Programme of Study	GPA in 3 rd Semester	% of Scholarship	Remark
1	Santosh Kumar 1309112017	OBC	Communication & M.S.-4 th Semester	7.15	100 %	Awarded
2	Amanat Ansari 1309112002	OBC	Communication & M.S.-4 th Semester	7.08	100 %	Awarded
3	Hariom Kumar 1309112006	OBC	Communication & M.S.-4 th Semester	8.15	100 %	Awarded

Second Semester (January – June 2015, Session 2014-16)

S No	Name of Students	Category	Programme of Study	GPA in 1 st Semester	Percentage of Scholarship	Remark
1	Anurag Kumar Mishra, 1409112004	Gen	Communication & MS -2 nd Semester	7.33	100 %	Awarded
2	Shweta Surbhi 1409112023	OBC	Communication & MS -2 nd Semester	7	100 %	Awarded

Merit cum Means Scholarship (MCM):

Third Semester (July – December 2014, Session 2013-15)

Sl. No.	Name of Students	Category	Programme of Study	GPA in 2 nd Semester	Percentage of Scholarship	Amount to be paid
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1	Hariom Kumar, CUB1309112006	OBC	M.A Communication & M S -3 rd Sem	7.76	100	3500/-
2	Santosh Kumar, CUB1309112017	OBC	M.A Communication & M S -3 rd Sem	7.06	100	3500/-

41) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology: Board of Studies held for the new courses.

42) Does the department obtain feedback from

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? : to be done by through Board of Examinations
- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? : to be done by course assessment by the student
- Alumni and employers on the programmes offered and how does the department utilize the feedback? : to be done at the level of University

43) List the distinguished alumni of the department (maximum 10): None

44) Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Seminar & Workshop:

- A three day *photography workshop* was conducted by renowned photographer and instructor Mr. Umesh Gogna (**September, 2012**)
- Ten-days workshop on *Newsletter designing* by Mr. Sanjay Mishra, Senior Sub-Editor, Amar Ujala, Allahabad (**September, 2012**)
- A one day student seminar was organized on the topic *Media and Youth*. (**October, 2012**)

Distinguish Lectures:

- *Dr. Ambrish Saxena Guru, Govind Singh Indraprastha University Lecture on Research Methodology dated 15.03.2013*
- *Mr. Push Raj, author of Nandigram Dairy, Roaming Journalist (Media and Society) on 9th September 2012.*
- Prof. Devesh Kishore, Ex-Professor MCRPU Bhopal
- Prof. Manoj Dayal, Guru Jambheshwar University, Hissar
- Mr. Aravind Pandey (IPS), IG Weaker Section, CID
- Mr. Arun Kumar, Bureau Chief, Hindustan Times



- Mr. Krishna Kant Upadhayay, Editor, Dainik Hindustan, Bihar
- Mr. Harsh Ranjan, Head, TV Today Media Institute, Delhi.

45) List the teaching methods adopted by the faculty for different programmes:
Theoretical cum practical input

46) How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? Course assessment done by students.

47) Highlight the participation of students and faculty in extension activities.

Institutional Training:

- One-week TV programme production training was held at *Doordarshan, Patna Kendra (November, 2012)*
- Three-days research training at *Press Information Bureau* to gauge effectiveness of *Bharat Nirman Campaign (August, 2013)*

Institutional Visit:

- *Prabhat Khabar* – to understand organization structure, printing techniques. **(December, 2012)**
- Doordarshan Visit - One day visit to Doordarshan, Patna for the student of 2011-13
- **Educational Trips:**
- *Muzaffarpur- A research project on "Effectiveness of AppanSamachar" (Community Channel).(March 22nd and 23rd 2013)*

Internships:

In two years the students have interned in the following organizations

- ABP News, New Delhi
- Aaj Tak, New Delhi
- Zee News, New Delhi
- Sahara Samay, Noida
- Sadhana News, Noida
- Maurya TV, Patna
- Hamar TV, Noida
- Doordarshan, Patna Kendra
- All India Radio, Patna Kendra
- Dainik Hindustan, Patna
- Hindustan Times, New Delhi
- Nav Bharat Times, New Delhi
- The Statesman, Noida

48) Give details of “beyond syllabus scholarly activities” of the department.

The Centre has close functional linkages with the media industry that is Print, Electronic and New Media. The media persons, from both areas- editorial and management- as well as media professionals are invited regularly for instruction and engaging classes. The linkage has been of great help to students in job placements.



49) State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: NO

50) Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- Although a newly established Centre for Mass Communication and Media has devoted its ventures and initiated the process of contributing in generation of new knowledge in both the fields – basic & applied.
 - Besides the study of various theoretical aspects of Mass Communication i.e. theories and models the Centre has contributed in following spheres:
 1. Production & Release of documentary films on social issues by students under the direction of teachers and outside experts of the field. The venture has been broadly applauded.
 2. Photography workshops being organised regularly. The contribution in the field of generating new knowledge in photography field has been recognised.
 3. Communication related research activities by students in rural areas have proved to be of use, as a way & means of understanding the role of media in development.

51) Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Qualified faculty members.
- Faculty with industrial experience
- First University in the state providing regular Master program.
- Exclusive computer and media lab for students with all the necessary software
- Practical oriented courses

Weaknesses

- No technical assistant
- Lack of infrastructure
- No availability of senior faculty (Professor, Associate Professor)
- No specific fund for the department
- Lack of support staff

Opportunities

- To become a centre for providing quality media professionals
- To emphasize on quality research
- To make students acquainted with technical aspects of media
- To make a positive relationship with society especially rural Bihar
- To tap those students especially girl students who want to pursue higher education locally.



Challenges

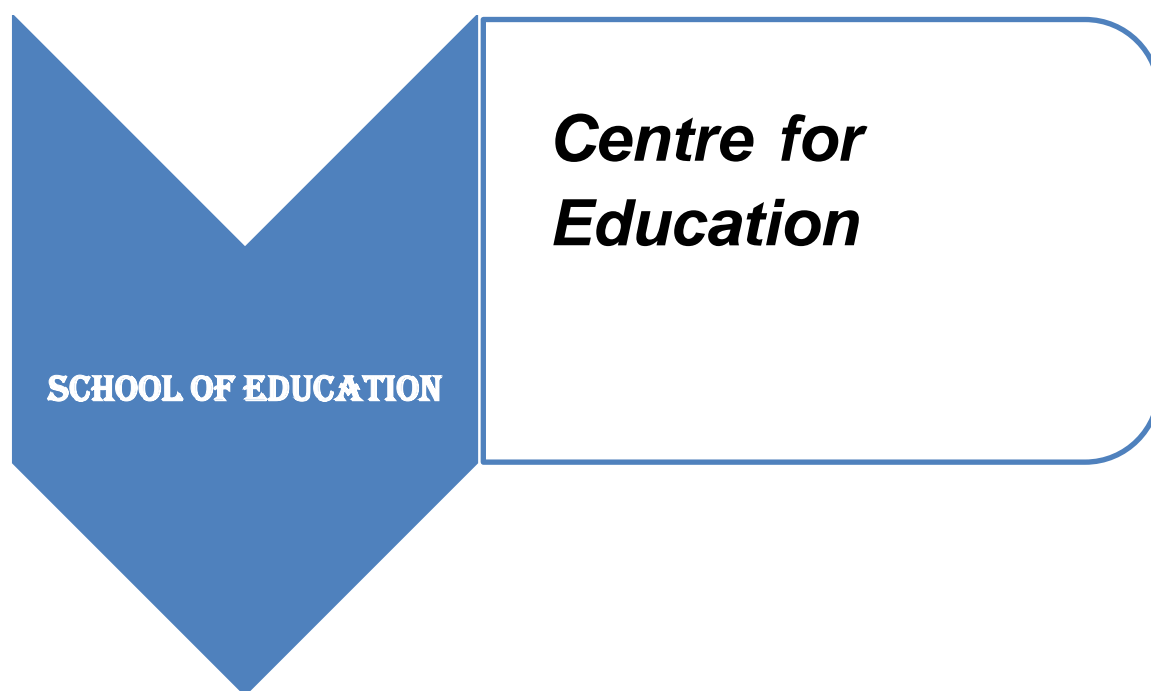
- To minimise the dropout of those students who are getting selected in other universities
- To make relationship with other institutions
- To meet with new requirement of media industry and train our students accordingly
- To make relationship with media industry to ensure placement
- To tap serious students who are interested in research.

52) Future plans of the department.

- Establishment of Community Radio (*proposal has already been submitted to the University administration*)
- Establishment of Electronic Media Production Centre (EMPC)



School of Education



SCHOOL OF EDUCATION

***Centre for
Education***



Evaluative Report of Centre for Education



Centre for Education

- 1) **Name of the Department :** Centre for Education
- 2) **Year of establishment :** 2013
- 3) **Is the Department part of a School/Faculty of the university?:** Yes. The Centre for Education is the part of the School of Education, Central University of South Bihar
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :** Four year Integrated- BA.BEd and BSc.BEd Programme
- 5) **Interdisciplinary programmes and departments involved:** The four year integrated B.A.B.Ed. & B.Sc.B.Ed. programmes are interdisciplinary in nature as these are combinations of Social Sciences/ Natural Sciences and Education. Hence, the departments of Biological Sciences, Physical Sciences, Mathematics, History, Economics, Sociology, Political Science, English, Hindi etc. are involved in achieving the goal of these programmes. Education itself is a not a core subject rather a multidisciplinary approach, because it encompasses the applications of the theoretical foundations of different core subjects like Philosophy, Psychology, Sociology, History, Economics, Statistics, Computer Science etc. in the field of Education. Therefore, the curricular and co-curricular activities of these programmes are conducted in collaboration with the relevant subject or department.
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc.:** The integrated UG programmes of the Centre work in collaboration with the schools for practice teaching, internship and other school based experiences. Along with that the learners are given exposure of relevant industrial experiences concerned with respective subject or discipline.
- 7) **Details of programmes discontinued, if any, with reasons :** NIL
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System :** Semester system with continuous and comprehensive evaluation pattern
- 9) **Participation of the department in the courses offered by other departments :** The Centre runs integrated programmes like BSc.BEd. & BA.BEd. which are combinations of B.Sc./ B.A. and Education programmes. Therefore, along with Education the courses of Biological Sciences, Physical Sciences, Mathematics, History, Economics, Sociology, Political Science, English, Hindi etc. are combined to accomplish the interdisciplinary nature of the programmes. The Faculties of these departments participate in the academic activities of the Centre for Education and vice versa.
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate**



Professors/Asst. Professors/others):

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	02	NIL	NIL
Associate Professor	03	01	01
Assistant Professor	08	03+02* (*contract)	05
Others	NIL	NIL	NIL

11) Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D./ M.Phil. students guided/ guiding in last 4 years
Dr. Kaushal Kishore	MA (Pol. Sci.), MEd, UGC-NET, PhD (Education)	Associate Professor	Educational Measurement and Evaluation, Research Methodology	11 years	01 MPhil 01 PhD
Dr. Mitanjali Sahoo	M.A(Eco), M.Phil(Eco), M.Ed., UGC-NET, PhD(Education)	Assistant Professor	Educational Measurement and Evaluation, Guidance and Counselling	7 years 8 months	Nil
Dr. Rinki	M.Sc.(Chemistry)M.Ed., UGC-NET, PhD(Education)	Assistant Professor	Educational Measurement and Evaluation, Guidance and Counselling	6 years 3 months	Nil
Dr. Rajnish Kumar	MA(Psychology) , MA(Hist), MEd., NET(Education), PhD(Education)	Assistant Professor (Contract)	Experimental Education, Guidance and Counselling	8 years and 2 months	Nil
Dr. Shambhavi Kumari	MA(Eng),MEd., MPhil(Education, NET-JRF(Education), PhD(Education)	Assistant Professor (Contract)	Educational Technology, Educational Measurement and Evaluation	7 years	Nil



- 12) **List of senior Visiting Fellows, adjunct faculty, emeritus professors : NIL**
- 13) **Percentage of classes taken by temporary faculty – programme-wise information : NA**
- 14) **Programme-wise Student Teacher Ratio : 20:1 in BA.BEd and 13:1 in BSc.BEd programme**
- 15) **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : Centralised Office System**
(There is no separate office for the Centre for Education. Centralised office system is followed in the whole University)
- 16) **Research thrust areas as recognized by major funding agencies : NA**
- 17) **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. : Nil**
- 18) **Inter-institutional collaborative projects and associated grants received : Nil**
a) National collaboration b) International collaboration
- 19) **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received : Nil**
- 20) **Research facility / Centre with : No**
 - state recognition
 - national recognition
 - international recognition
- 21) **Special research laboratories sponsored by / created by industry or corporate bodies: NA**
- 22) **Publications:**

Dr. Kaushal Kishore :- 09

1. *‘Fostering emotional intelligence (A strategy to prepare well adjusted future citizens’* in an edited book (pp. 71-80) entitled ‘New Trends and Innovations in Education’ edited by Dr. N. Dey, K. L. Dangwal, and S. Chaudhary, published by New Delhi Publishers, New Delhi in **2013**. (ISBN No.: 978-93-81274-23-1)
2. *‘Satat evam samgra mulyankan: Vidyalaya kya kar rahe hain?’* in an edited book (pp. 65-67) entitled ‘Vartaman Samaj evam Shikshak Shiksha’ edited by Dr. H.S. Singh, published by Rakhi Prakashan, Agra in **2013**. (ISBN No.: 9789380375-76-2)



3. 'Bhartiya samaaj ki pristhabhoomi' in an edited Block/book of SLM for D.Ed. entitled 'Bhartiya Samaaj, Darshan evam Shiksha' Edited by Prof. N. N. Pandey and published by MP Bhoj (Open) University, Bhopal in **2013**.
4. 'Shiksha ka artha, swaroop evam mahatva' in an edited Block/book of SLM for D.Ed. entitled 'Bhartiya Samaaj, Darshan evam Shiksha' Edited by Prof. N. N. Pandey and published by MP Bhoj (Open) University, Bhopal in **2013**.
5. 'Samaaj evam shiksha' in an edited Block/book of SLM for D.Ed. entitled 'Bhartiya Samaaj, Darshan evam Shiksha' Edited by Prof. N. N. Pandey and published by MP Bhoj (Open) University, Bhopal in **2013**.
6. 'Secular Attitude: A Study of Madarsa Students' in an International Refereed and Indexed Journal (**Impact Factor: 2.1652**) (pp. 21-23) *Indian Journal of Applied Research*, 4(11), **2014**.
7. 'Region, resources and people' in a Block/book of SLM for D.El.Ed. entitled 'Teaching of Social Sciences (BES-018)' published by IGNOU, New Delhi in **2014**.
8. 'Assessment in Higher Education: A Case of Central University of South Bihar' in an International Refereed and Indexed Journal (**Impact Factor: 3.6241**) (pp. 490-491) *Indian Journal of Applied Research*, 5(8), **2015**.
9. 'Secular Attitude: A Study of Madarsa Teachers' in an International Refereed and Indexed Journal (**Impact Factor: 3.6241**) (pp. 543-545) *Indian Journal of Applied Research*, 5(8), **2015**.

Dr. Mitanjali Sahoo :- 07

1. Dr. Mitanjali Sahoo published a research article on *Anxiety and adjustment of higher secondary school students with differential levels of self-concept* in VISION Research Journal of Education, Vol.IV, No.1 ISSN No. 2230-9071, April **2013**.
2. Dr. Mitanjali Sahoo published a research article on Influence of Academic Preference of secondary school students on their academic achievement in PRANGNYA, Vol.3, Issue No.4, ISSN. No. 2229-4864, June **2013**.
3. Dr. Mitanjali Sahoo published a research article on *Leadership Preference Style of Functioning of the Heads of Secondary Schools as perceived by their teachers*, in Himalayan Journal of Social Sciences, Vol.3, Issue No.2, ISSN No. 2231-6639, October-**2013**



4. Dr. Mitanjali Sahoo published a research article on Industrial Development and Economic Growth: Implications for poverty Reduction and Income Inequality in India in Himalayan Journal of Social Sciences, Vol 4, Issue No.2 Vol 4, Issue No.2, October 2014.
5. Dr. Mitanjali Sahoo published a chapter on “A study on Knowledge and Awareness on Life Skills Education of the Elementary school students” in the book “Life Skills Education: Need and Importance” with ISBN No. 9789383701063.
6. Dr. Mitanjali Sahoo published a research article on Perception of parents and Teachers towards Homework Assignment Given at the elementary level in Education and Society (An International Journal of Education and Society), ISSN No.2319 9687, Vol.4, No.1, May 2015.
7. Dr. Mitanjali Sahoo published a book on “Adolescent Behaviour” with ISBN No. 978-93-313-2605-8 from APH Publishing Corporation, Ansari Road, Darya Ganj, New Delhi in 2015.

Dr. Rinki :- 01

1. **Rinki (2013). “Inhibitions, adjustment and rehabilitations expectations: A case study”**, in Proceeding of a national conference - *Counselling and Rehabilitation: Reaching the Unreached*, November 2013, Special Education & HEPSN Cell, Jadavpur University. ISBN 97-881-927525-2-5

*** Number of papers published in peer reviewed journals (national / international)**

Dr. Kaushal Kishore-	20
Dr. Rinki-	07
Dr. Mitanjali Sahoo-	12
Dr. Rajnish Kumar-	05
Dr. Shambhavi Kumari-	09

*** Monographs - NIL**

*** Chapters in Books**

Dr. Kaushal Kishore-	10
Dr. Rinki-	01
Dr. Mitanjali Sahoo-	01
Dr. Rajnish Kumar-	01

*** Edited Books**

Dr. Kaushal Kishore-	01
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*** Books with ISBN with details of publishers**

Dr. Kaushal Kishore

S1 No.	Title of Book	Particulars of Book and Publisher (with ISSN/ISBN)
1.	UDAARVAD: Raj, samaj aur bazaar ka naya pathh	A translated book based on FREE YOUR MIND (by Sauvik Chakraverti) published by C.C.S. Publication, New Delhi (Translator) (ISBN: 81-87984-19-8)
2.	Cooperative Learning	A Reference Book published by APH Publishing Corp. New Delhi (Author) (ISBN: 978-81-313-1263-6)

*** Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : NIL**

*** Citation Index – range / average : NIL**

*** SNIP : NIL**

*** SJR : NIL**

*** Impact Factor – range / average : NIL**

*** h-index : NIL**

23) Details of patents and income generated : NIL

24) Areas of consultancy and income generated : The Centre is in the process of offering consultancy programmes to different schools on framing questions for evaluation, methodologies of teaching, development of low cost improvised teaching aids, continuous comprehensive evaluation, guidance and counselling, conduct of examinations etc. There is no question of generation of income from consultancy programme. The main purpose behind this is to improve quality education in the present era.

25) Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad

List of faculty members of Centre for Education invited as resource persons

1. Dr. Kaushal Kishore
2. Dr. Mitanjali Sahoo
3. Dr. Rinki

(Some of the events are given below)

- Dr.Kaushal Kishore has acted as resource person in 8th Refresher course in Education organised by D.D.U Gorakhpur on February 20, 2014, national workshop on ‘ICT in Education’ organised by Department of Education



Magadh University on February 21, 2014, international conference organised by IATE in Allahabad during March 08-09,2014, workshop on “Revision of curriculum” organised by Magadh University on May 30, 2014, ICSSR sponsored workshop on Research Methodology in social sciences organised by Department of Education, NEHU, Shillong during September 08-09, 2014

- Dr. Mitanjali Sahoo has acted as resource person in national workshop on ‘ICT in Education’ organised by Department of Education Magadh University on February 20, 2014
- Dr. Rinki has acted as resource person in national workshop on ‘ICT in Education’ organised by Department of Education Magadh University on February 21, 2014 and workshop on “Revision of curriculum” organised by Magadh University on May 30, 2014.

26) Faculty serving in

a) National committees

1. Dr. Kaushal Kishore

Member of National Executive Committee and Joint Secretary of IATE (Indian Association of Teacher Educators) – An oldest professional body of teacher education

2. Dr. Shambhavi Kumari

Core-team Member of CIET, NCERT for translating resources in Maithili and Gujarati languages for NROER

b) International committees -

c) Editorial Boards

1. Dr. Kaushal Kishore

- Reviewer of research papers for the international journal ‘Current Issues in Education’ from Arizona State University, USA.
- Member of Editorial Board of Paripex - Indian Journal of Research
- Member of Editorial Board of Education India – A quarterly refereed Journal of Dialogues on Education

2. Dr. Shambhavi Kumari

- Visiting Consultant at TGES, Ahmedabad for Proof Reading and Editing
- Reviewer of Educational Journals for Elsevier, Council for Innovative Research, Journal of Advances in Linguistics etc.
- Former member of editorial board of Peoples’ Dialogue on Education

d) Any other (please specify)

27) Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) : Faculties are provided the opportunities to attend seminars, workshops, orientation and refresher programmes from



time to time.

28) Student projects

- **percentage of students who have done in-house projects including inter-departmental projects** : The students of education have prepared projects on Environmental Education regarding the diverse issues related to environmental aspects.
- **percentage of students doing projects in collaboration with other universities industry / institute** : The students of the department have prepared their projects on school visit in collaboration with different secondary schools of the region. The students have also prepared their project reports on different aspects of human abilities like achievement, intelligence, creativity, aptitude, attitude etc. on different levels of individuals where they have to work in collaboration with school, colleges, universities and society members.

29) Awards / recognitions received at the national and international level by

- **Faculty** – Nil
- **Doctoral / post-doctoral fellows** – NA
- **Students** – Prince Kumar from B.A. B.Ed. first semester was awarded the best performer of the day in the semi final round of the inter-state reality show organised by ASHMA sponsored by Nakshtra TV.

30) Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any. : The department is planning for the same

31) Code of ethics for research followed by the departments : University centralised code of ethics for research are followed by the university

32) Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2014-18(B.Sc.BEd)		21	21		
2014-18(B.A. B.Ed)		28	20		

33) Diversity of students -



Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
B.A. BEd.				
B.Sc. BEd.				

- 34) How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise :
NIL
- 35) Student progression : NA

Student progression	Percentage against enrolled
UG to PG	N/A
PG to M.Phil.	N/A
PG to Ph.D.	N/A
Ph.D. to Post-Doctoral	N/A
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	Nil
Entrepreneurs	Nil

- 36) Diversity of staff :

Percentage of faculty who are graduates	
Of the same university	NIL
From other universities within the state	NIL
From universities from other states	100%
From universities outside the country	NIL

- 37) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : NIL
- 38) Present details of departmental infrastructural facilities with regard to :



- a. **Library** – At present Department library has not been started. It is governed by the central library.
- b. **Internet facilities for staff and students** – Each faculty members are provided with computer with internet facilities. The students have been provided internet facilities with computers in the computer laboratory.
- c. **Total number of class rooms** – As the University is functioning in rented building and has no permanent campus; there is crisis of rooms for the department. The department has 2 dedicated classrooms and other classrooms are managed on sharing basis with other departments.
- d. **Class rooms with ICT facility** – Each classroom is attached with LCD projectors with computers
- e. **Students' laboratories** – Well equipped Science laboratories (Physics, Chemistry and Biology), Computer laboratory and Psychology Resource Centre are functioning in the department.
- f. **Research laboratories**– Not yet started

39) List of doctoral, post-doctoral students and Research Associates -NA

- a. from the host institution/University
- b. from other institutions/universities

40) Number of post graduate students getting financial assistance from the University : NA

41) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology : A committee of experts in the field was constituted for this.

42) Does the department obtain feedback from

- i. **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? :** The Centre continuously obtains feedback from faculties on curriculum and teaching-learning evaluation. Frequent meetings are organised in the department to modify the curriculum as well as the teaching –learning-evaluation based on the thrust areas needed for teacher education programme and local specificity considering eco diversity of the state.
- ii. **Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? :** The Centre obtains feedback from the students, curriculum and teaching-learning-evaluation and immediately departmental meetings are organised to find out strong and weak points on the same. Necessary actions are also undertaken and suggestions are incorporated to achieve the programme objectives.
- iii. **Alumni and employers on the programmes offered and how does the department utilize the feedback?**



- 43) List the distinguished alumni of the department (maximum 10) :** Department has recently started in 2013 and offers 4 year integrated B.A. B.Ed. and B.Sc. B.Ed. programme. Hence Alumni association has not been formed.
- 44) Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :**
- Prof. S.B. Bhattacharya, Former Dean, Faculty of Education, Banaras Hindu University delivered a lecture on Preparation of Achievement Test on 24th January 2014.
 - A two days workshop on spoken tutorial was organised by the department on 24th and 25th February 2014 in collaboration with Indian Institute of Technology, Mumbai.
 - A talk on spoken English was organised by Prof.Panchanan Mohanty, Centre for Linguistics, CALTS, University of Hyderabad in September, 2014.
 - A one day writing workshop was organised by Dr. Richa on 18th February, 2014 for the BABEd. IIIrd semester students. The workshop was based on the topics on elaborate discussion on given topic, making a semantic map, outlining the order, elaboration of the sub-topics, precision in languages, choice of appropriate words, writing grammatically correct and balanced sentences and organising the material.
- 45) List the teaching methods adopted by the faculty for different programmes :** The integrated BA/BSc.B.Ed programme is innovative in nature in both content and teaching methodology. The faculty members put less emphasis on classroom lecture and emphasise more on group discussions, presentations, projects, seminars, term papers and assignments, brain storming sessions, computer based assignments, case studies, role plays, dramatics, readings of classics etc. To practise these techniques in a systematic way, the transaction modes are reflected in the syllabi and are adopted depending on the need of the course and the programme.
- 46) How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? :** The major objectives of the innovative BA/BSc.B.Ed programme is to prepare teachers of high caliber for all levels of Education in tune with the national and international goals, to cater to the pressing needs of the students' problems and to suggest, a meaningful and visibly relevant system of teacher education. These programme objectives are constantly met by creating learning environment for maximum learning of the students, giving them opportunities to apply theoretical knowledge to practical field by working in close association of the schools, adopting various strategies for creating teaching learning situation like seminar, discussion, etc. by creating and giving them opportunity for active participation in various activities organised by the core department as well as cognate departments, by ensuring comprehensive and continuous mode of evaluation, syllabus modification in guidance of experts from various universities of the nation, by organising regular meetings of various committees to keep track and evaluate the progress and development of various works related to teaching, evaluation, and development.



- 47) **Highlight the participation of students and faculty in extension activities :** The Centre has always tried to keep in touch with the community development programmes. Community Safai Abhiyan has been organized by students for keeping environment clean and developing awareness among the people to keep their surroundings clean. Environmental awareness and literacy campaigning are also organised time to time by the students and teachers to develop awareness among community members and to develop communication among the community and the department. Different educational institutions are also kept in touch to help each other in adopting the best practices in the teaching learning process.
- 48) **Give details of “beyond syllabus scholarly activities” of the department :**
- Weekly activity seminar series both for students and teachers
 - Guidance and Counselling sessions for the students
 - Reflection of academic activities through essays, debates, posters, reading texts, role plays, dramatics, dancing, singing etc.
 - Formation of science club for the students
 - Linking the department with the community through activities like awareness campaigning on environmental education, literacy campaigning, safai abhiyan etc.
- 49) **State whether the programme/ department is accredited/ graded by other agencies? If yes, give details : No**
- 50) **Briefly highlight the contributions of the department in generating new knowledge, basic or applied :** The faculty members in the centre are assessing the current status of education and its associated factors in the state through effective research programme and new knowledge is generated in the field of modification of curriculum, changing the methods of teaching and learning, modification of the evaluation pattern etc.
- 51) **Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**
- Strengths-**
- Well qualified, trained and committed teachers
 - Integrated and innovative B.Ed. programme
 - Good interpersonal relationships among faculties, students and staff
 - Cooperation from other departments
 - Strong financial and administrative support of the University to the department
- Weaknesses-**
- Lack of infrastructural facilities for adopting best practices of the teacher education programmes
 - Less number of teacher appointment(3 at present) for the department
 - No separate office for the department



Opportunities-

- Being the first central University in the State of Bihar providing quality education, public and other institutions have developed positive attitude which may be utilised for working with them in collaboration.
- Because of the quality education provided in the department, substantial representation of the students is expected to be ensured in the employment sectors.
- Being first institution in Bihar to start innovative programme in teacher education, there is ample opportunity to lead and guide other institutions for running and adopting best practices.

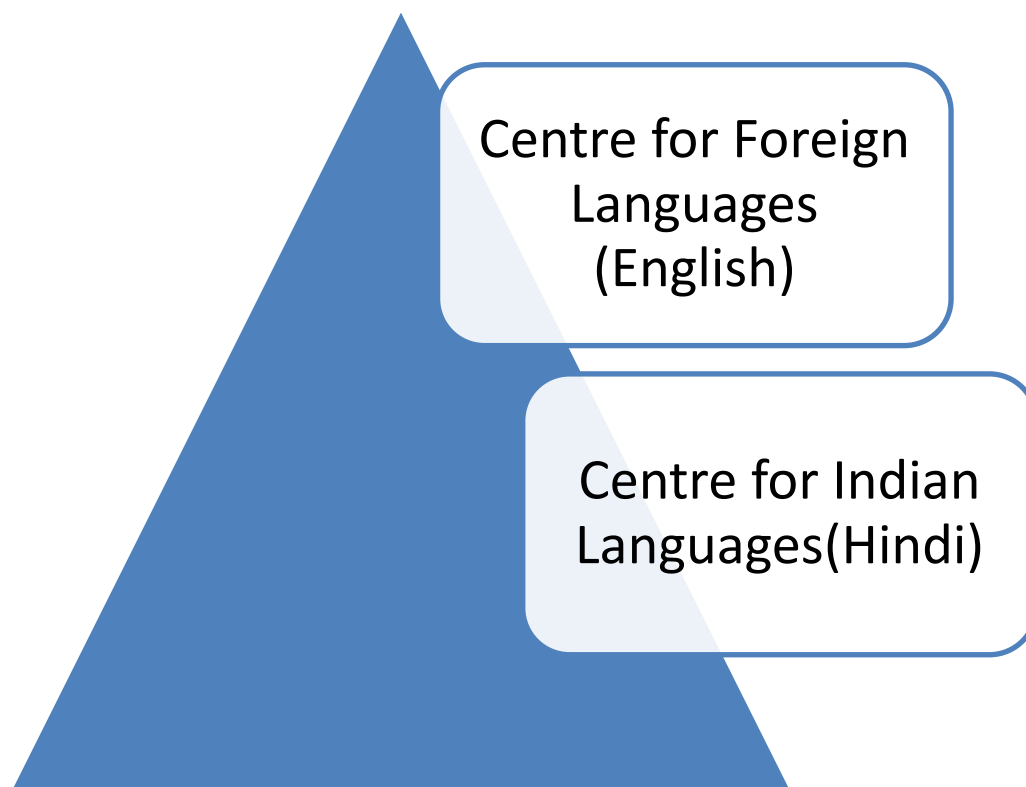
Challenges-

- Limited Infrastructural facility, limited faculty strength and limited office support is acting as constraint in the development and expansion of the department to its maximum extent.
- Being a newly born University it is still under the process of evolution and expansion which impedes the normal execution of plans of the Centre.

52) Future plans of the department.

- To start PG (M.Ed.) and M.Phil.-PhD programmes
- To start UG and PG programmes in Special Education (B.Ed. Special Education and M.Ed. Special Education).
- To start a diploma in teacher education for prospective teachers in higher education.
- To strengthen the academic and infrastructural resources of the centre in terms of quality books and journals, standard laboratories etc.
- To develop the centre as an excellent hub with international identity for quality research and innovations in education by following best practices to bridge the gap between theory and practice in teacher education and to work as nodal centre to spread such best practices in the whole state of Bihar.

School of Languages and Literature





Evaluative Report of Centre for Foreign Languages (English)

Centre for Foreign Languages (English)

- 1) **Name of the Department:** Centre for Foreign Languages (English)
- 2) **Year of establishment:** 2012
- 3) **Is the Department part of a School/Faculty of the university?:** Yes, School of Languages and Literature.
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):** UG (Law and Education) and PG English
- 5) **Interdisciplinary programmes and departments involved:** Yes, teaching Students' of Education and Law.
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc.:** NIL
- 7) **Details of programmes discontinued, if any, with reasons :** NIL
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System :** Semester with Choice Based Credit System: Semester Based Evaluation, it is cross checked by external faculty members.
- 9) **Participation of the department in the courses offered by other departments :** Courses on Communication Skills, Language Proficiency and Literature are conducted for undergraduate students of Law and Education.: Department itself offer the above mentioned courses.
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	0	NIL
Associate Professors	02	0	NIL
Asst. Professors	04	01+02*	Suresh Kurapati Ashish Kr. Pathak Richa
Others		3 guest faculty	Prof. C. P. Singh Prof. Hari Mohan Prasad Pro. Anjum



11) Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided/guiding for the last 4 years
Suresh Kurapati	B.Ed., M.A., M. Phil., Ph.D (pursuing)	Assistant Professor	English Language Teaching and Linguistics	Seven years	Nil
Ashish Kumar Pathak	M.A., Ph. D.	Assistant Professor (contract)	20 th Century British Literature	Three Years	Nil
Richa	M.A., Ph. D	Assistant Professor (contract)	Gender and Ecology	Two Years	Nil

12) List of senior Visiting Fellows, adjunct faculty, emeritus professors : NIL

13) Percentage of classes taken by temporary faculty – programme-wise information :

July to December 2015 semester

Course Code	MA English-Courses Title	Faculty	Credits
Semester – I			
ENG 501	Foundation in Writing & Communication Skills	Guest Faculty	2
ENG 502	Introduction to English Language	Suresh	4
ENG 503	Geoffrey Chaucer to the Renaissance	Ashis+Richa	2
ENG 504	Shakespeare and the Seventeenth-Century British Literature and Thought	Guest Faculty	4
ENG 505	18 th Century British Literature	Richa	4
ENG 506	Romantic Literature and Thought	Ashis	4
Total Credits			20



Course Code	MA English Semester – III	Faculty	Credits
ENG 601	English Language Teaching	Suresh	4
ENG 602	Literary Theory : The Major Texts	Richa	4
ENG 603	American Literature	Guest Faculty	4
ENG 604	New Literatures in English	Guest Faculty	4
ENG 605	20 th Century British Literature ...	Ashis	4
	Total Credits		20

English Courses in the School of Education

Course Code	Semester – I	Faculty	Credits
EDU 101	Language Proficiency –English (BA, B.Ed)	Ashis	2
EDU 101	Language Proficiency –English (BSc, B.Ed)		2
ENG 101	Introduction to English (B.A)	Suresh	4

Total no of students not known yet; Maximum intake in BA is 50 & 24 in B.Sc.

Course Code	Semester – III	Faculty	Credits
ENG 201	Introduction to English Literature II: Understanding Drama (B.A.B.Ed)	Ashis+ Richa	4
Course Code	Semester – V	Faculty	Credits
ENG 301	History of English: Language and Literature I (B.A.B.Ed.)	Ashis	3
ENG 302	Novels in English (B.A.B.Ed.)	Richa	3

English Courses in the School of Law and Governance

Course Code	Semester – I	Faculty	Credits
ENG111	Language I (B.A. Law)	Suresh	4
ENG111	Language I (B.Sc. Law)	Suresh	4

Total no of students not known yet. Maximum in take is 50 in BA Law and 24 in B.Sc. Law

Total workload of existing faculty:



1. Suresh Kurapati	16 credits
2. Ashish Kumar	16 Credits
3. Richa	16 Credits

48 Credits

Guest Faculty:

Pro.C.P Singh	4 Credits
Prof. Harimohan Prasad	4 Credits
Prof. Anjum	4 credits
Dr. Neeraj Kumar, MU	2 credits
Total Credits to be taught	66

PG and UG: 40 percent of classes are conducted by guest faculty
40 percent of classes are conducted by four contractual faculty members
20 percent by one permanent faculty

14) Programme-wise Student Teacher Ratio: 14:3

MA English Previous	09
MA English Fresh	05
UG Law: BA Law -	55
UG Law: BSc Law	25
UG Education BA. B.Ed IV sem -	14
UG Education BA. B.Ed III Sem-	28
UG Education B.A. B.Ed. I Sem -	44
UG B.Sc. B.Ed. I Sem	28
UG student teacher ratio	194:3

15) Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : Centralised Office System

16) Research thrust areas as recognized by major funding agencies: NIL

17) Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise : NIL

18) Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : Centralised Office System

19) Inter-institutional collaborative projects and associated grants received:

a) National collaboration: NIL b) International collaboration : NIL

20) Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : NIL



21) Research facility / centre with

- **state recognition:** NIL
- **national recognition:** NIL
- **international recognition:** NIL

22) Special research laboratories sponsored by / created by industry or corporate bodies: NIL

23) Publications:

Faculty Activities:

Suresh Kurapati, Assistant Professor:-06

1. **Organised** a “Talk cum Demonstration of Language Lab” by Mr. Shailendra Naithani, Focus Technologies, New Delhi on 11/11/2014 from 9am to 11am in the Conference Hall, Central University of Bihar, Gaya Campus, Bihar.
2. **Participated in panel discussion** on "Indian Society in 21st Century: Development and Change" on 25th of November 2014 at Conference Hall from 4:00PM to 6:00PM organised by The Centre for Sociological Studies, School of Social Sciences and Policy.
3. **Chaired** a session in Raw.Con (Researcher at Work Conference) “**Language, Culture and Translation**” on 12/9/2014 between 1.54 to 3.15. held during 10 to 12 September 2014 in University of Hyderabad, Hyderabad.
4. **Published** a chapter on “Mother Tongue vs. English Medium of Instruction for Dalits” in July 2014, the book titled *English in the Dalit Contexts by Orient Black Swan, New Delhi. ISBN 9788125055198.(Page nos 77-84).*
5. **Presented a research paper** titled “Attitude of the students and faculty towards Dalit literature” in a National seminar on “Can Dalit Literature be a Core/Compulsory Course in Literature Departments?” A National Seminar in Honour of Prof. M. Sridhar organised by University of Hyderabad from 3rd to 4th April, 2014.
6. Working on **Language Lab Development** since November 2014 in Central University of South Bihar.

Name: Dr. Richa

Designation: Assistant Professor (Contract)

Centre: Centre for Foreign Languages (English)



List of activities

- Was awarded my PhD Degree on the topic *Gender and Ecology on the Novels of Amitav Ghosh, Arundhati Roy and Kiran Desai* from Department of English, Banaras Hindu University in January 2015.
- Read a self-written story, “Peela Purana Kaagaz” in a seminar organised by the Department of Hindi, CUSB on *Prem: Astiva, Swapn aur Sangharsh*, 17th Feb 2015.
- Attended a National seminar in IIT, Patna on *Knowledge Society for Sustainable Development* held on April, 3 and 4, 2015 and presented a paper on “Being, Surrounding and the Patriarchal Grammar”.
- Wrote lessons on “Thomas Grey’s *Elegy Written in a Country Churchyard*” and “Jonathan Swift’s *A Modest Proposal*” for Nalanda Open University.
- Read my self-composed poems as a visiting poet in All India Radio on September 1, 2015.

Students’ achievements: Mr. ABHISHEK KUMAR, (MA IVsem) got placement in Azim Premji Foundation

24) Details of patents and income generated : NIL

25) Areas of consultancy and income generated : NIL

26) Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad : NIL

27) Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify): NIL

28) Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) : Yes

29) Student projects

- percentage of students who have done in-house projects including inter-departmental projects: Yes
- percentage of students doing projects in collaboration with other universities/ industry / institute : Mr. T. Nasin Juli Kumari -Project Title is Kiran by UGC, Rs. 3,25,600 on Dec, 2014

30) Awards / recognitions received at the national and international level by

- Faculty: NIL
- Doctoral / post doctoral fellows: 2 awarded + 1 awaiting to be awarded
- Students: NIL

31) Seminars/ Conferences/Workshops organized and the source of funding (national

international) with details of outstanding participants, if any.: NIL

32) Code of ethics for research followed by the departments : Yes

33) Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2012-14		01	02	33.3%	66.6%
2013-15		09	03	66.6%	33.3%
2014-16		03	06		
2015-2017		1	4	20	80

34) Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.A. English (2015-17)	--	100%	--	--

35) How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

36) Student progression

Student progression	Percentage against enrolled
UG to PG	NA
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	NA
Entrepreneurs	NA



37) Diversity of staff

Percentage of faculty who are graduates	
of the same University	Nil
from other universities within the State	2 out of 5 i.e. 40%
from universities from other States	1 out of 5 i.e. 20%
from universities outside the country	Nil

38) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: 3

39) Present details of departmental infrastructural facilities with regard to

- | | |
|--|-----|
| a. Library: | No |
| b. Internet facilities for staff and students: | Yes |
| c. Total number of class rooms: | One |
| d. Class rooms with ICT facility: | One |
| e. Students' laboratories: | NA |
| f. Research laboratories: | Nil |

40) List of doctoral, post-doctoral students and Research Associates

- from the host institution/University
- from other institutions/universities

41) Number of post graduate students getting financial assistance from the university.:
Four

42) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

43) Does the department obtain feedback from

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?:** Yes, through Centre Committee (CC) and Board of Studies (BoS). We keep upgrading and updating the courses, teaching methods, evaluation pattern and include new courses as and when the need is felt.
- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?:** Yes, through end-of-the-semester Course Assessment activities centrally and confidentially conducted by the University administration.
- Alumni and employers on the programmes offered and how does the department utilize the feedback?**



44) List the distinguished alumni of the department (maximum 10): NA

45) Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- 1) Professor Panchanan Mohanty, CALTS, University of Hyderabad, delivered a lecture on “Spoken English” to UG and PG students, 24th September, 2013
- 2) Weekly Seminar Series conducted by the School of Languages and Literature on varied topics of student interest

46) List the teaching methods adopted by the faculty for different programmes : Lectures, Classroom discussion, PPT, audio-visual presentations, take-home assignments, term papers, etc.

47) How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? : Through Continuous Assessment of students, CC meetings, BoS and BoE meetings.

48) Highlight the participation of students and faculty in extension activities.

49) Give details of “beyond syllabus scholarly activities” of the department.

50) State whether the programme/ department is accredited/ graded by other agencies? If yes, give details : NIL

51) Briefly highlight the contributions of the department in generating new knowledge, basic or applied : The Centre striving to develop both language and literature. The syllabus is very unique in developing both the skills in the same programme.

52) Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- 1) Young, dynamic and dedicated faculty
- 2) Up-to-date course structure, keeping in mind the diverse background of enrolled students and real-world needs/demands.
- 3) Equal emphasis on language, literature and research studies
- 4) National character and diversity are reflected in faculty recruitment
- 5) Use of effective pedagogical practices with interdisciplinary scope

Weaknesses:

- 1) Most of the departmental faculty are working on contract basis
- 2) Non-filling of existing sanctioned posts.
- 3) Lack of Departmental library, other research facilities and dedicated support staff
- 4) Lack of Language Lab
- 5) Fee hike in successive years



Opportunities:

- 1) Development of Interdisciplinary approach
- 2) Development of critical and analytical faculties
- 3) Potential to connect with forms of local and folk cultural practices
- 4) Attracting international students and guest faculty
- 5) Potential for setting up of courses in other foreign languages

Challenges:

- 1) Increasing student-strength
- 2) Reduction of student fees
- 3) Enrichment of departmental library and academic resources
- 4) Development of studying practices among students
- 5) Maintaining and developing the academic and creative potential of teachers, owing to lack of time available for research activities

53) Future plans of the department.

- 1) Publication of departmental research journal
- 2) Development of a dedicated blog for the Centre
- 3) Establish a Centre for Comparative Literary Studies
- 4) Set up functional courses like translation, journalism, etc.
- 5) Organize an international seminar



Evaluative Report of Centre for Indian Languages (Hindi)

Centre for Indian Languages (Hindi)

- 1) **Name of the Department** – Centre for Indian Languages(Hindi) (सेंटर फॉर इंडियन लैंग्वेजेज (हिंदी))
- 2) **Year of establishment** - 2012
- 3) **Is the Department part of a School/Faculty of the university?** हाँ
- 4) **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)** : स्नातक (शिक्षा विभाग के संयुक्त तत्त्वावधान में), स्नातकोत्तर, इंटीग्रेटेड एम.फिल-पी-एचडी।
- 5) **Interdisciplinary programmes and departments involved** : लागू नहीं
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc.** – नहीं
- 7) **Details of programmes discontinued, if any, with reasons** – नहीं
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System** – सेमेस्टर एवं स्वेच्छा आधारित क्रेडिट प्रणाली
- 9) **Participation of the department in the courses offered by other departments** – नहीं
- 10) **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	0	0
Associate Professors	02	1	01
Asst. Professors	04 +1(Urdu-1)	5	05
Others			



19) Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received – नहीं

20) Research facility / centre with

- state recognition– नहीं
- national recognition– नहीं
- international recognition– नहीं

21) Special research laboratories sponsored by / created by industry or corporate bodies – नहीं

22) Publications:

Dr. Kamla Nand Jha, :- 08

प्रकाशन सूची (कमलानंद झा)

- १ मणिकर्णिका: जोरी लाई रक्त के लेई। गाढ़ि प्रीति नयनहन जल भेई, वागर्थ, भारतीय भाषा परिषद, कोलकाता, जून २०१५
- २ जब मैंने सीखा आकलन का ककहरा, शिक्षा-विमर्श (मूल्यांकन विशेषांक), जुलाई-सितम्बर २०१५, दिगंतर, जयपुर
- ३ मानस और कवितावली के उत्तरकांड के बीच फर्क का निहितार्थ, आलोचना, संपादक-नामवर सिंह, जुलाई-सितम्बर २०१३, राजकमल प्रकाशन, नयी दिल्ली
- ४ मुक्कमल कबीर की खोज, रेतपथ, हरियाणा, अंक-१, वर्ष-१, जुलाई-दिसम्बर २०१३
- ५ हिंदी पाठ्यपुस्तकों में स्त्री छवि- स्त्रीकाल, वेब पत्रिका, २३ मई २०१५
- ६ आध्यात्मिक रंग के चश्मे से सवाल-जबाब, संपादित पुस्तक- रामवृक्ष बेनीपुरी : व्यक्ति एवं अभिव्यक्ति, प्रकाशन संस्थान, दिल्ली- २०१४

मैथिली प्रकाशन

- ७ श्रम सादैर्य आओर उदात्त प्रेमक विराट् कथा : पृथ्वीपुत्र, घर-बाहर, चेतना समिति, पटना, जुलाई-सितम्बर २०१५ (भाग-एक)
- ८ श्रम सादैर्य आओर उदात्त प्रेमक विराट् कथा : पृथ्वीपुत्र, घर-बाहर, चेतना समिति, पटना, अक्टूबर-दिसम्बर २०१५ (भाग-दो)

डॉ. कर्मानंदआर्य, :-

आलेख, शोधपत्र, पुस्तक समीक्षा, अन्य :

1. हिंदी उपन्यास और आदिवासी चिंतन (संघर्ष, सपने और चुनौतियाँ एवं २१ वीं सदी) डॉ.विनोद विश्वकर्मा, अनंग प्रकाशन, नई दिल्ली, मैं एक अध्याय 'पिछले पन्ने की औरतें : आदिवासी स्त्री की त्रासद कथा, प्रकाशित, आइएसबीएन- ९७८-९३-८०८४५-५४-८, पृष्ठ १०१-१०९, प्रथम संस्करण-२०१५



2. लोक साहित्य एवं संस्कृति का वर्तमान स्वरूप सम्पादित पुस्तक वाङ्मय प्रकाशन, अलीगढ़, संपादक डा० अल्पना सिंह) आइएसबीएन 978-93-82485-292 (भोजपुरी लोक और साहित्य का वर्तमान स्वरूप विषय पर एक अध्याय प्रकाशित पृ० 22-29
3. समकालीन विमर्श मुद्दे और बहस, संपादक-रवि कुमार गोंड, पुस्तक में एक अध्याय – ‘आदिवासी चिंतन सृजन और पर्यावरण ’ वांग्मय प्रकाशन अलीगढ़, प्रकाशित, आइएसबीएन- ९७८-९३-८०८४५-२६-५, पृष्ठ ३३३-३६६
4. ‘गजलकार हीरालाल के साहित्य का समीक्षात्मक मूल्यांकन’ संपादक हरिशंकर मिश्र में एक अध्याय ‘अनगढ़ पत्थर : बयान ए हकीकत’ प्रकाशित, वांग्मय प्रकाशन अलीगढ़
5. आदिवासी अस्मिता, प्रभुत्व और प्रतिरोध, संपादक – श्री अनुज लुगुन, में ‘ग्लोबलवार्मिंग की दुनिया बनाम आदिवासी जीवन अर्थात ‘मरंगगोड़ा नीलकंठ हुआ’ एक अध्याय प्रकाशित, पृष्ठ – ९९-१०४ आइएसबीएन-
6. मूक आवाज शोध जर्नल में एक शोधपत्र पत्र ‘सीमित वृत्त का विस्तार : समकालीन आदिवासी कवितार्ये, पृष्ठ-३४३-३५१, आइएसएसएन- २३२०-८३५-X, प्रकाशित, संपादक –प्रमोद मीणा, पोंडिचेरी विश्वविद्यालय, पोंडिचेरी
7. ‘वंचित संवेदना का साहित्य-भाग दो’ सम्पादित पुस्तक में एक अध्याय ‘उधर के लोग: दलित ब्राह्मणों की कथा’ प्रकाशित, संपादक-विजेंद्र प्रताप सिंह, आकांक्षा प्रकाशन, दिल्ली
8. ‘वंचित संवेदना का साहित्य-भाग तीन’ सम्पादित पुस्तक में एक अध्याय ‘कोलाज बनाती आदिवासी कविता’ प्रकाशित, संपादक-विजेंद्र प्रताप सिंह, आकांक्षा प्रकाशन, दिल्ली, पेज- १२८-१३३
9. स्त्रीकाल, स्त्रीवादी पत्रिका, संपादक संजीव चन्दन, समकालीन हिंदी आलोचना में स्त्री उवाच, शोध आलेख प्रकाशित ISSN number: 2394-093X <http://www.streekaal.com>
10. दैनिक भास्कर, पटना संस्करण, दिनांक १० नवम्बर १४ को ‘साहित्य’ में ‘हाफ लिटरेचर हैं चेतन भगत’ आलेख प्रकाशित
11. दैनिक भास्कर, पटना संस्करण, दिनांक १५ दिसंबर १४ को ‘साहित्य’ में ‘दलित साहित्य में प्रेम के बदलते आयाम’ आलेख प्रकाशित
12. ब्यापारी, जिसने अनुभव चुराए, फारवर्ड प्रेस, साहित्य विशेषांक, २०१५ में आलेख प्रकाशित आइएसएसएन- २३४८-९२८६, पृष्ठ – ७८
13. दैनिक भास्कर, पटना संस्करण, दिनांक १० मार्च १५ को ‘धर्म’ में जीवन के दुःख की दवा है विपश्यना’ आलेख प्रकाशित
14. दैनिक भास्कर, पटना संस्करण, दिनांक १६ मार्च १५ को ‘साहित्य’ में हिंदी शब्दों की खेती में नई फसल है लप्रेक’ आलेख प्रकाशित



15. आजकल, पत्रिका, प्रकाशन विभाग, भारत सरकार, सितम्बर-१४ में 'पाठक और कविता के बीच दूरी' परिचर्चा प्रकाशित, पृष्ठ- ३३
16. सेतु व्यंग्य विशेषांक, हिमाचल प्रदेश, संपादक देवेन्द्र गुप्ता, जनवरी-जून १४ में मेरा पहला व्यंग्य आलेख-"जातिवादी होने का लक्षण". प्रकाशित
17. अगस्त २०१३ के 'इंडिया टुडे' पत्रिका में प्रकाशित मेरी कविताओं की समीक्षा : सन्दर्भ 'दोआबा' 'इजाडोरा और कुछ सबूत' प्रकाशित
18. दैनिक भास्कर, पटना संस्करण, दिनांक २ फ़रवरी १५ 'साहित्य' में 'कहाँ नहीं है बखेड़ापुर' आलेख प्रकाशित
19. दैनिक भास्कर, पटना संस्करण, दिनांक ११ मई १५ को 'साहित्य' विशेषांक में 'कागा ! दुई नैना मत खाइयो' पत्रालेख प्रकाशित
20. गुरुकुल पत्रिका (अन्तर्राष्ट्रीय षोधपत्रिका) पृष्ठ.०६७६८०१७, अंक अक्टूबर-दिसम्बर २०११ में षोध लेख वक्त्रोक्ति सिद्धान्त और नागार्जुन की कविता प्रकाशित
21. जनकृति, (सृजन के प्रत्येक क्षेत्र में विमर्श स्थापित करती अंतरराष्ट्रीय मासिक ई पत्रिका) में प्रकाशित मेरा दो व्यंग्य आलेख, मिस्टर डंकी फ़ॉम बाराबंकी, अकेले का सुख http://jankritipatrika.blogspot.in/p/blog-page_29.html
22. दैनिक 'तरुण मित्र' बिहार संस्करण में दिनांक १४ अप्रैल १५ को प्रकाशित आलेख-सामाजिक रूपांतरण के अग्रदूत बाबासाहेब भीमराव अम्बेडकर
23. भारतीय भाषा केंद्र, जवाहरलाल नेहरु विश्वविद्यालय, नई दिल्ली द्वारा आयोजित दो दिवसीय अंतर्विषयक अन्तर्राष्ट्रीय संगोष्ठी, दलित समाज, सांस्कृतिक रूपांतरण और संतगुरु रविदास, दिनांक २३-२४ फ़रवरी २०१५ में लोक सत्ता और प्रतिरोध, शोधसारांश का प्रकाशन, शोधपत्र प्रकाशन की प्रक्रिया में है

अन्य प्रकाशन :

- १ दोआबा प्रतिष्ठित साहित्यिक पत्रिका संपादक प्रो. जाबिर हुसेन जून जुलाई- २०१३ पटना, वर्ष ७ अंक १५ में बारह कवितायें प्रकाशित
- २ तलाश वर्ष १६ अंक तीन में सितम्बर १३ में कविता प्रकाशित – कैसे लिखूं पुलिस सत्ता और महबूबा पर कविता
- ३ अंगिकालोक पत्रिका में घायल देश के सिपाही कविता प्रकाशित, अक्टूबर १३
- ४ वंचित जनता के अक्टूबर १४ अंक में गिरनार का भेड़िया कविता प्रकाशित
- ५ SCANNER पत्रिका वर्ष ८- अंक ,१-सितम्बर २०१३ में कविता ' घायल देश के सिपाही प्रकाशित'



- ६ 'अन्तिम जन' महात्मागांधी अन्तराष्ट्रीय प्रतिष्ठान दिल्ली के जुलाई 13 अंक में तीन कवितायें प्रकाशित
- ७ SCANNER पत्रिका वर्ष ,अंक १०-नवम्बर २०१३ में कविता 'पिछड़ गए शब्द' प्रकाशित
- ८ वंचित जनता पत्रिका में 'वह एक युद्धरत आम आदमी' कविता प्रकाशित, जनवरी १५
- ९ वंचित जनता पत्रिका में 'सपनों के जुलाहे' कविता प्रकाशित, नवम्बर १४
- १० शब्द सरिता हिंदी त्रैमासिक पत्रिका, जून-दिसंबर १४ में दो कवितायें 'चूड़ियाँ, अंतिम दरख्त' प्रकाशित
- ११ दैनिक भास्कर, पटना संस्करण, दिनांक २७ अक्टूबर १४ को 'साहित्य' में 'द्रोपदी' कविता प्रकाशित
- १२ वंचित जनता पत्रिका में 'मेरा समर्पण' कविता प्रकाशित, सितम्बर १४
- १३ स्त्रीकाल, स्त्रीवादी पत्रिका, संपादक संजीव चन्दन, जुलाई १४ के वेब संस्करण में ग्यारह कवितायें प्रकाशित
- १४ वंचित जनता पत्रिका में 'मेरा अंतिम पता' कविता प्रकाशित, मई २०१४
- १५ परिचय, पत्रिका, बनारस हिन्दू विश्वविद्यालय, संपादक-श्रीप्रकाश शुक्ल, पत्रिका में सात कवितायें प्रकाशित
- १६ वंचित जनता पत्रिका में 'पिछड़े हुआँ की भाषा' कविता प्रकाशित, अप्रैल १४
- १७ SCANNER पत्रिका वर्ष- अंक ,१-९ नवम्बर २०१३ में कविता 'पिछड़ गए शब्द' प्रकाशित
- १८ वंचित जनता पत्रिका में 'गिरनार का भेड़िया' कविता प्रकाशित, नवम्बर २०१३
- १९ दोआबा प्रतिष्ठित साहित्यिक पत्रिका संपादक प्रो.हुसेन जाबिर . जूनजुलाई- २०१३ वर्ष ७ अंक १५ में बारह कवितायें : डरी हुई चिड़िया का मुकदमा ,डरो नहीं मेरी कविता तुम्हारे खिलाफ नहीं है ,नाचो न इजाडोरा ,मेरी पीढ़ी के देवता ,बड़ी उम्मीद से लिख रहा हूँ ,तुम्हारी बूढ़ी उम्मीदों के साथ ,एक मजदूर की डायरी ,पिछड़े हुआँ की भाषा , तुमने कभी सोचा सूखे तपे पहाड़ों का दुःख ,तुम्हारी आवाज मद्धम क्यों हो गई, पतुरिया नाच ,घायल देश के सिपाही प्रकाशित
- २० अंगिकालोक ,में घायल देश के सिपाही कविता प्रकाशित
- २१ SCANNER पत्रिका वर्ष-१ ८- अंक ,सितम्बर २०१३ में कविता ' घायल देश के सिपाही प्रकाशित'
- २२ अंतिम जन-महात्मा गाँधी अन्तराष्ट्रीय प्रतिष्ठान नई दिल्ली २०१३ ISSN 2278-1633 ANTIMJAN में मेरे हृदय में तुम्हारी प्रार्थना जीवित है तथा बड़ी उम्मीद से लिख रहा हूँ में प्रकाशित
- २३ वंचित जनता अंक १९-अक्टूबर २०-नवम्बर २०१३ में कविता गिरनार का भेड़िया प्रकाशित
- २४ प्रभात खबर, रविवार सृजन, दिनांक ०५ मई २०१३ को घायल देश के सिपाही कविता प्रकाशित



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- २७ दलित अस्मिता, वर्ष १४-१५ अंक ३ जनवरी-जुलाई २०१४ में दो कवितायें 'ओ मेरी पीढ़ी के देवता' और 'दलित-शिकायत' प्रकाशित ISBN – 2278-8077
- २८ साहित्यिक वेब पत्रिका अनुनाद, संपादक-शिरीष कुमार मौर्य, http://anunaad.blogspot.in/2014/10/blog-post_9.html में ग्यारह कवितायें प्रकाशित
- २९ स्त्रीकाल, स्त्रीवादी पत्रिका, संपादक संजीव चन्दन, सितम्बर १४ के वेब संस्करण में कवितायें प्रकाशित http://www.streekaal.com/2014/09/blog-post_16.html
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- ३१ वंचित जनता पत्रिका में 'उस घटना के बाद वाली रात' कविता प्रकाशित, जुलाई २०१४ प्रकाशित
- ३२ रेतपथ, साहित्यिक पत्रिका, संपादक अमित मनोज, ISSN-2229-6212, महेंद्रगढ़, हरियाणा, जनवरी-जून १४ में पांच कवितायें प्रकाशित
- ३३ बुलंद आवाज, पत्रिका, नवम्बर १४ में कविता प्रकाशित
- ३४ कथा क्रम, साहित्यिक पत्रिका, अप्रैल-जून १४ में दो कवितायें 'हमारी दुनिया, ओ दलित बेटियों' प्रकाशित
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- ४० साहित्य अमृत, मिलिन्द, षब्द सरोकार, स्वस्ति पन्था: एवं स्थानीय पत्र-पत्रिकाओं के विभिन्न अंकों में तीस से अधिक कविताओं, हिन्दी गजलों का प्रकाशन हो चुका है।
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- ४२ दैनिक भास्कर, पटना संस्करण, दिनांक १३ अप्रैल १५ को 'साहित्य' में बाबा साहेब' कविता प्रकाशित



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- ४४ स्त्रीकाल, स्त्रीवादी पत्रिका, संपादक संजीव चन्दन, १० फ़रवरी १५ के वेब संस्करण में चार कवितायें प्रकाशित http://www.streekaal.com/2014/09/blog-post_16.html
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१	भटकती भारतीय पत्रकारिता का क्षरण	१६ अक्टूबर ,३१- २०१४	पेज ५
२	भारतीय भ्रष्टाचार ,बयानों ,नारों : गोरखधंधा का सनोंआश्वा	१ नवम्बर ,१५- २०१४	पेज ४
३	लव जिहाद के बाद अब किस ऑफ़ लव	१६ नवम्बर ,३०- २०१४	पेज ५
४	मानवाधिकार-ज्यों गया बढ़ता मर्ज : की दवा ज्यों	१ २०१४ दिसंबर १५-	पेज ४
५	संतो का आश्रम कहीं अपराध का पनाहगार न बन जाए	१६ दिसंबर ,३१- २०१४	पेज ५
६	नीति आयोग नई को शराब पुरानी : कवायद की डालने में बोतल	१ २०१५ जनवरी १५-	पेज ४
७	रक्षा की धर्म :दूकान की 'वापसी घर' राजनीतिकरण या	१६ जनवरी ३१- २०१५	पेज ४
८	रूस पूरी शिद्दत से भारत की तरफ झुक रहा है	१६ जनवरी ३१- २०१५	पेज ७
९	भारत में ओबामा : भारत जाल भ्रम अमेरिका-	१ २०१५ फ़रवरी १५-	पेज ९



१०	रजनी कोठारी का निधन-राजनीति : के बौद्धिकता में विज्ञान सामाजिक अंत का युग एक	१ २०१५ फ़रवरी १५-	पेज ३
११	भारत के लिए चीन भी अमेरिका जितना ही जरूरी	१६ २०१५ फ़रवरी २८-	पेज ४
१२	बिहार में सदमे रहा लोकतंत्र जब :	१ २०१५ मार्च १५-	पेज ५
१३	सैलाब नशे का के पीढ़ी युवा की देश : खतरा लिए	१६ २०१५ मार्च ३१-	पेज ४
१४	आम आदमी पार्टी की आंतरिक हलचल पुरानी साथ के वैचारिकी नयी : समस्याएं	१ २०१५ अप्रैल १५-	पेज ४
१५	स्मार्ट लोग ही स्मार्ट शहर बना सकते हैं	१ २०१५ अप्रैल १५-	पेज १४
१६	भारतीय राजनीति की नयी करवट	१६ २०१५ अप्रैल ३०-	कवर स्टोरी
१७	Published but yet to receive the copy	१ २०१५ मई १५-	
१८	Published but yet to receive the copy	१६ २०१५ मई ३०-	
१९	Published but yet to receive the copy	१ २०१५ जून १५-	
२०	Published but yet to receive the copy	१६ २०१५ जून ३०-	कवर स्टोरी
२१	Published but yet to receive the copy	१ २०१५ जुलाई १५-	
२२	Published but yet to receive the copy	१६ २०१५ जुलाई ३१-	
२३	Published but yet to receive the copy	१ २०१५ अगस्त १५-	
२४	Published but yet to receive the copy	१६ अगस्त ३१- २०१५	
२५	In the Press	१-१५ सितम्बर २०१५	

* Number of papers published in peer reviewed journals (national / international) –
७५

* Monographs – २०

* Chapters in Books – २०



- * Edited Books – ४
 - * Books with ISBN with details of publishers – ६
 - * Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : Nil
 - * Citation Index – range / average: Nil
 - * SNIP : Nil
 - * SJR : Nil
 - * Impact Factor–range/average: Nil
 - * h-index : Nil
- 23) Details of patents and income generated – लागू नहीं
- 24) Areas of consultancy and income generated – लागू नहीं
- 25) Faculty selected nationally / internationally to visit other laboratories / institutions /industries in India and abroad – हाँ
- 26) Faculty serving in – हाँ
- a) National committees b) International committees c) Editorial Boards d) any other (please specify) संपादक-मंडल में डा० कमलानंद झा और डॉ कर्मानन्द आर्य
- 27) Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). – हाँ
- डा० कमलानंद झा एवं डा. योगेश प्रताप शेखर ने उन्मुखीकरण एवं विशय आधारित रिफ्रेशर कोर्स कर लिया है।
 - डॉ कर्मानन्द आर्य, श्री शांति भूशण तथा डा० कफील अहमद ने उन्मुखीकरण कार्यक्रम को संपन्न कर लिया है।
- 28) Student projects – नहीं
- percentage of students who have done in-house projects including inter-departmental projects
 - percentage of students doing projects in collaboration with other universities / industry / institute
- 29) Awards / recognitions received at the national and international level by



□ Faculty ✓ - श्री अनुज लुगुन को भारत भूषण अग्रवाल एवं सावित्री त्रिपाठी पुरस्कार ।

- Doctoral / post doctoral fellows : Nil
- Students : Nil

30) Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any. – नहीं

31) Code of ethics for research followed by the departments –

गवेषणात्मक दृष्टि और मौलिकता । प्राथमिक संसाधनों, स्रोतों का अधिक से अधिक इस्तेमाल । तटस्थ, निष्पक्ष एवं समाजोपयोगी दृष्टि ।

32) Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
PG	20	1	3	100%	100%
M-Phil-Ph.D	25	1	1	100%	100%

33) Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG	N.A.	100%	-	-
M-Phil-Ph.D	N.A.	-	100%	-

34) How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

. नेट - 2 (सामान्य.-01 एवं ओबीसी.-01)

35) Student progression – लागू नहीं

Student progression	Percentage against enrolled
UG to PG	NA



PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
Employed	
<input type="checkbox"/> Campus selection	Nil
<input type="checkbox"/> Other than campus recruitment	
Entrepreneurs	NA

36) Diversity of staff

Percentage of faculty who are graduates of the same University	--
from other universities within the State	20%
from universities from other States	80%
from universities outside the country	--

37) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period & nks

38) Present details of departmental infrastructural facilities with regard to

- Library : No
- Internet facilities for staff and students : Yes
- Total number of class rooms : 03
- Class rooms with ICT facility : Yes
- Students' laboratories : No
- Research laboratories : No

39) List of doctoral, post-doctoral students and Research Associates – नहीं

- from the host institution/University
- from other institutions/universities



- 40) Number of post graduate students getting financial assistance from the university. – दो
- 41) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. – नहीं
- 42) Does the department obtain feedback from
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
 - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
 - alumni and employers on the programmes offered and how does the department utilize the feedback?
- विश्वविद्यालय स्तर पर यह फीडबैक प्रक्रिया अपनायी जाती है।
- 43) List the distinguished alumni of the department (maximum 10) – लागू नहीं
- 44) Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts – नहीं
- 45) List the teaching methods adopted by the faculty for different programmes.
- स्नातक स्तर पर सूचनात्मक, स्नातकोत्तर स्तर पर विश्लेषणात्मक एवं शोध के स्तर पर गवेषणात्मक शिक्षण-विधियाँ अपनायी जाती हैं।
- 46) How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? – सतत मूल्यांकन प्रक्रिया द्वारा एवं छात्रों के व्यक्तित्व-विकास का परीक्षण कर पाठ्यक्रम उपदेश्यों की पूर्ति की जाँच की जाती है।
- 47) Highlight the participation of students and faculty in extension activities – नहीं
- 48) Give details of “beyond syllabus scholarly activities” of the department. – साप्ताहिक संगोष्ठी शृंखला का आयोजन। कविता-उत्सव का आयोजन। साहित्यकारों के ऊपर स्मृति व्याख्यान माला का आयोजन।
- 49) State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. – नहीं



50) **Briefly highlight the contributions of the department in generating new knowledge, basic or applied.** – विभिन्न शैक्षणिक कार्यक्रमों के पाठ्यक्रम अद्यतन हैं। साथ ही वे समाजोन्मुख भी हैं। इन्हीं सामाजिक उद्देश्यों की पूर्ति हेतु छात्रों में विश्लेषणात्मक क्षमता का संवर्धन-परिवर्धन किया जाता है।

51) **Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

शक्तियाँ (Strengths) :-

1. विभाग के सभी शिक्षक गुणवत्तापूर्ण अकादमिक स्रोतों एवं संसाधनों से नियुक्त है।
2. भाषा एवं साहित्य के विभिन्न क्षेत्रों की विशेषज्ञता शिक्षकों में है।
3. संकायगणों का राष्ट्रीय-स्तर की पत्र-पत्रिकाओं में प्रकाशन होता रहता है।
4. विभाग के अध्यापक श्री अनुज लुगुन को प्रतिष्ठित भारत भूषण अग्रवाल पुरस्कार एवं सावित्री त्रिपाठी पुरस्कार प्राप्त है।
5. विभाग में बहुभाषी शिक्षक हैं।

कमजोरियाँ (Weaknesses) :-

1. विभागीय स्तर का पुस्तकालय नहीं है।
2. भाषा-प्रयोगशाला (लैंग्वेज लैब) नहीं है।
3. विभाग में स्वीकृत अकादमिक एवं विवेक के अनुरूप नियुक्ति नहीं हुई है।
4. शिक्षा-शुल्क अपेक्षाकृत अत्याधिक है।
5. स्वतंत्र रूप से विभाग का ढाँचा खड़ा नहीं हुआ है।

अवसर (Opportunities)-

1. अंतरानुशासनात्मक दृष्टि का विकास।
2. बौद्धिक एवं विश्लेषणात्मक क्षमता का विकास।
3. बौद्ध-सिल के निकट स्थित होने के कारण भारतीय भाषाओं एवं साहित्य तथा बौद्ध-धर्म-दर्शन के बीच संवाद तथा शोध के अवसर।
4. लोक साहित्य के संकलन एवं संरक्षण के अवसर।



५. विश्व-पर्यटन सिल पर स्थित होने के कारण अंतरराष्ट्रीय छात्रों को आकर्षित करने का अवसर।

चुनौतियाँ (Challenges) :-

१. छात्रों की संख्या बढ़ाने की चुनौती।
२. शिक्षण-शुल्क को कम करने का चुनौती।
३. विभागीय स्तर पर पुस्तकालय को समृद्ध करने की चुनौती।
४. वर्तमान परिप्रेक्ष्य में छात्रों में भाषा एवं साहित्य की पाठकीय क्षमता के विकास की चुनौती।
५. शिक्षण-गतिविधि की अवधि कार्यालय की अवधि के समान होने के कारण शिक्षकों की शैक्षणिक गुणवत्ता को बचाए रखने की चुनौती।

52) Future plans of the department.

- 1-** शोध पत्रिका का प्रकाशन।
- 2-** विभागीय ब्लॉग का निर्माण।
- 3-** तुलनात्मक साहित्य आधारित अध्ययन केंद्र स्थापित करने की योजना।
- 4-** हिंदी पत्रकारिता अध्ययन केंद्र की स्थापना।
- 5-** अंतरराष्ट्रीय शोध-संगोष्ठी आयोजित करने की योजना।



Evaluative Report of School of Law and Governance



School of Law and Governance

- 1) **Name of the Department:** School of Law and Governance
- 2) **Year of establishment:** 2013
- 3) **Is the Department part of a School/Faculty of the university?** No; only bachelor programmes started under the School of Law and Governance.
- 4) **Names of programmes offered (UG, PG, M.Phil.-Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :** UG, (B.A.LL.B (Hons.) & B.Sc. LL.B (Hons.))
- 5) **Interdisciplinary programmes and departments involved:**

Two interdisciplinary programmes: (I) B.A.LL.B(Hons.) & (II) B.Sc. LL.B(Hons.)

Departments involved:

 - i. Centre for Political Studies,
 - ii. Centre for Sociological Studies,
 - iii. Centre for Economic Studies and Policies,
 - iv. Department of Chemistry,
 - v. Department of Physics,
 - vi. Department of Mathematics,
 - vii. Centre for Psychological Sciences,
 - viii. Centre for Biological Sciences,
 - ix. Centre for Environmental Sciences.
- 6) **Courses in collaboration with other universities, industries, foreign institutions, etc.:** NIL
- 7) **Details of programmes discontinued, if any, with reasons:** NIL
- 8) **Examination System: Annual/Semester/Trimester/Choice Based Credit System:** Semester System
- 9) **Participation of the department in the courses offered by other departments:** Law and Economics course offered by Centre for Economic Studies and Policies (M.A. in Economics)



10) Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	0	--
Associate Professor	02	0	--
Assistant Professor	04	02+01* (*contract)	--
Others	--	--	--

11) Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Pradip Kumar Das	M.COM., LL.M., PGDIPR, UGC-NET, Ph.D.(LAW)	Assistant Professor & Head(I/C)	Business Laws & Intellectual Property Laws	12 Years 02 Months [9 Years 02 Months Academic and 3 Years Professional Experience]	Not Applicable
Ms. Poonam Kumari	B.A., LL.M.(Human Rights), UGC – NET.	Assistant Professor	Human Rights Law	2 Years 4 Months	Not Applicable
Mr. Ahsan Rashid	B.A.LL.B.(H), LL.M., UGC-NET.	Assistant Professor(On Contract)	Personal Laws	2 Years 6 Months	Not Applicable



12) List of senior Visiting Fellows, adjunct faculty, emeritus professors:

(i). Professor (Dr.) Bhikari Ram Yadav, Professor, Department of Philosophy, Magadh University, Gaya, Bihar.

13) Percentage of classes taken by temporary faculty – programme-wise information

- B.A. LL.B. (H): 20%
- B.SC.LL.B. (H): 20%

14) Programme-wise Student Teacher Ratio

- B.A.LL.B. (H): 8:1
- B.SC.LL.B. (H): 3:1

15) Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

Not sanctioned for the school yet there is centralized office system
Number of Academic Support Staff:
- Technical: Nil
- Administrative: Nil

16) Research thrust areas as recognized by major funding agencies: Not yet

17) Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.: NIL

18) Inter-institutional collaborative projects and associated grants received – Nil

a) National collaboration b) International collaboration

19) Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. Nil

20) Research facility / centre with – N/A

- state recognition
- national recognition
- international recognition



21) Special research laboratories sponsored by / created by industry or corporate bodies
- N/A

22) Publications:

Dr. Pradip Kumar Das :- 14

Research articles:

Published as Book Chapters (with ISBN)-

1. Legal Protection of Traditional Cultural Expressions in India: A Review; Published in the book “Intellectual Property Rights- A Prismatic View” as book chapter, Edited by Dr. S.C. Roy, Associate Professor, Chanakya National Law University, Patna, ISBN NO. 978-81-7487-924-0, Published by Radha Publications, New Delhi; Page No.89 to 115.
2. Legal Protection and Conservation of Biodiversity in India: An Appraisal; Sent in June, 2014 and Accepted for publication as book chapter with ISBN.
3. Role of SEBI as Principal Regulator of Indian Capital Market: A Discourse from Legal Perspective; Sent and accepted in August, 2014 for publication as book chapter with ISSN.
4. Identity Crisis of Subordinate Judiciaries in India: A Discourse from Constitutional Perspective; Sent on 11-04-2015 and accepted for publication as book chapter with ISSN.

Published in Referred National/International Journals (With ISSN)-

1. Human Rights perspective of Intellectual Property: An Overview; Published in Indian Human Rights Law Review; a PeerReviewed Referred Journal, R.Cambray& Company Private Ltd.; Vol.4, No.-2, Dec.-2013, Page No.-157[ISSN 2230-7036].
2. Legal Protection of Traditional Cultural Expressions or Folklore in India: An appraisal; Published in SHODH PRERAK in Vol. No. III, Issue 3, July 2013, a Multidisciplinary Quarterly International Referred Research Journal, [ISSN Number 2231-413X].
3. FDI in retail sector and legal regulatory framework in India: An appraisal; Published in Jogesh Chandra Chaudhuri Law College(JCC) Law Review; [ISSN 2231-296X]; a Peer Reviewed Referred Journal, Vol. IV No.1, 2013; Page Number- 114 to 124.
4. Legal Protection of Traditional Medicinal Knowledge (TMK) in India: A discourse; Published in YAGYATHA International Referred Research Journal [ISSN: 2348-4225]; Vol: 1, Issue 2, April –June, 2014, Page Number 190- 199.



5. Legal Protection of Traditional Knowledge: A discourse from Indian perspectivesent and accepted in January, 2015 by Jogesh Chandra Chaudhuri Law College(JCC) Law Review; [ISSN 2231-296X]; a Peer Reviewed Referred Journal.
6. Daughter's Deficit in India: A discourse from legal perspective published in "INDIAN JOURNAL OF COMPARATIVE LAW" a Peer Reviewed Referred National Journal, volume 2, Issue-1, January 2015, ISSN 23939338, Page Number 17-33.
7. Acid Test of the acid attack victims: A discourse from legal perspective in India; sent and accepted in September, 2015, by "INDIAN JOURNAL OF COMPARATIVE LAW" a Peer Reviewed Referred National Journal, ISSN 23939338.

Published in other National/International Journals (With ISSN)-

1. Legal and regulatory frameworks of corporate governance in USA and India - A comparative study; Published in 'CALCUTTA LAW TIMES' in June 2014, Vol.2, Part-III, Page Number 38- 53; [ISSN 0971-748X].
2. Legal Protection of Traditional Agricultural Knowledge(TAK) and Traditional Fishing Knowledge (TFK) in India: A discourse; Published in "JAMSHEDPUR RESEARCH REVIEW"-a Peer Reviewed Multidisciplinary International Research Journal; ISSN:2320-2750 in September- November Issue, 2014, Vol. 2, Issue VIII, Page Number 23-29.
3. False and Misleading Advertisements and protection of the consumers: Indian scenario; Published in International Journal of Law and Legal Jurisprudence Studies, a Peer Reviewed International on line Law Journal withISSN: 2348-8212; Volume Number 1, Issue-6(September, 2014).
4. Traditional Knowledge Digital Library(TKDL) and Legal Protection of Traditional Knowledge(TK) in India: A Review; Published in International Journal of Legal Research,a Peer Reviewed International Law Journal; Volume -1, Issue -1, Page Number 47 to 60, ISSN Number-2349-8463.
5. Environment Protection and Legislative Enactments in India: An appraisal.Published in South Asian Journal of Multidisciplinary Studies (SAJMS), ISSN: 2349-7858, a bi-Monthly Peer reviewed On- Line Multidisciplinary Journal, Volume 1, Issue-3.
6. Role of Competition Law in the process of industrialization in India: An Appraisal with special reference to its importance in 'smart city';Published in The Journal of Development Management and Communication, Jaipur, Vol.2, No.1, January-March 2015 issue; Page number-57-64, ISSN 2348-7739.



7. Women and child trafficking - a social cancer in India: An appraisal from legal perspective sent and accepted by Plebs Journal of Law, ISSN-2454-4124, Haryana, India, in August, 2015.

Miss Poonam Kumari:- 01

1. Book Chapter: “Legal Protection of Traditional Knowledge: A Critical Discourse from International Perspective” Published in Book named, Intellectual Property Rights, A Prismatic View, ISBN: 978-81-7487-924-0

Mr. Ahsan Rashid:- 02

1. “Speedy Trial As a Part of Fundamental Human Rights in India: Legal Protections”, Published in Orient Journal of Law and Social Sciences, Andhra Pradesh, Volume-VIII, Issue-4, March 2014, ISSN 0973-7480.
2. Co- author “Right to Speedy Trial Indian Judiciary and Justice Delivery System”, with Regal Publications, New Delhi (In press for publication)

Number of papers published in peer reviewed journals (national / international):

- Dr. Pradip Kumar Das- 16
- Miss Poonam Kumari- 01
- Mr. Ahsan Rashid- 01

Monographs – Nil

Chapters in Books:

Dr. Pradip Kumar Das – 05
Miss Poonam Kumari- 01
Mr. Ahsan Rashid- NIL

Edited Books - Nil

Books with ISBN with details of publishers - Nil

Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) - Nil

Citation Index – range / average- Nil

SNIP: Nil

SJR: Nil

Impact Factor – range / average- Nil

h-index - Nil

23) Details of patents and income generated – N/A



24) **Areas of consultancy and income generated** – N/A

25) **Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad** – N/A

26) **Faculty serving in**

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Dr.Pradip Kumar Das:

- i. Member (former) of P.G. Board of studies in LL.M., Vidyasagar University, Midnapore, W.B.
- ii. Member (former) of U.G. Board of studies in Law, Vidyasagar University; Midnapore, W.B.
- iii. Member (former) of the Executive Council (EC), Vidyasagar University, Midnapore-721102, W.B.
- iv. Member (former) of the Inspection Team (as a member of the Executive Council) for extension of affiliation in different subjects in various colleges under the Vidyasagar University, W.B.;
- iv. Member, ALL INDIA LAW TEACHER'S CONGRESS (AILTC), NEW DELHI; INDIA.
- v. Member, Editorial Board, Law Journal, VinobaBhave University, Hazaribag, Jharkhand.
- vi. Life Member of Plebs Association of Law Teachers, Haryana, India.
- vii. Member of Editorial Board, Reviewer & Referee, Plebs Journal of Law, ISSN: 2454-4124, Haryana, India.
- viii. Member of Editorial Board, National Journal of Comparative Law(NJCL), ISSN:2393-9338, a bi-annual and Peer Reviewed referred law journal, Published by Academic and Research Publications and JPMS society, Ghaziabad(U.P.)-201010.

27) **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).** : No



28) Student projects N/A

- percentage of students who have done in-house projects including inter-departmental projects
- percentage of students doing projects in collaboration with other universities/ industry / institute

29) Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post-doctoral fellows
- Students

30) Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any:

- (i).Organizing Committee member, XXXVI Indian Social Science Congress Programmes; December 26-31, 2012, KIIT University, Bhubaneswar;
- (ii). Organizing Committee member and Convener of One day training programme on Human Rights, Organized by School of Law and Governance, Central University of South Bihar and National Human Rights Commission, New Delhi, on 13th February, 2015.

31) Code of ethics for research followed by the departments – N/A

32) Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc. LLB(2013-18) & B.Sc. LLB(2014-19)		16	13		
B.Sc. LLB(2015)		19	04		
B.A. LLB(2013-18) & B.A. LLB(2014-19)		34	19		
B.A. LLB(2015)		36	10		



33) Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries

34) How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. :
Nil

35) Student progression

Student progression	Percentage against enrolled
UG to PG	NA
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	Nil
Entrepreneurs	Nil



36) Diversity of staff

Percentage of faculty who are graduates of
the same university

from other universities within the State	--
from universities from other States	100%
from universities outside the country	--

37) Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38) Present details of departmental infrastructural facilities with regard to

- a. Library : NIL
- b. Internet facilities for staff and students : Yes
- c. Total number of class rooms :
- d. Class rooms with ICT facility
- e. Students' laboratories:
- f. Research laboratories

39) List of doctoral, post-doctoral students and Research Associates: N/A

- e) from the host institution/University
- f) from other institutions/universities

40) Number of post graduate students getting financial assistance from the university. N/A

41) Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. N/A

42) Does the department obtain feedback from



- a. **faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes**
 - b. **students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes**
 - c. **alumni and employers on the programmes offered and how does the department utilize the feedback? N/A**
- 43) **List the distinguished alumni of the department (maximum 10): N/A**
- 44) **Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**
- Special Lectures,
 - Workshops,
 - Seminars.
- 45) **List the teaching methods adopted by the faculty for different programmes.**
- B.A.LL.B.(H):**
- Lecture Method of Teaching,
 - Seminar Method of Teaching,
 - Problem Method of Teaching,
 - Case Study Method of Teaching.
- B.Sc.LL.B.(H):**
- Lecture Method of Teaching,
 - Seminar Method of Teaching,
 - Problem Method of Teaching,
 - Case Study Method of Teaching.
- 46) **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?:** The school is earnestly trying to follow the guidelines of Bar Council of India in this regard in true spirit.
- 47) **Highlight the participation of students and faculty in extension activities.N/A**
- 48) **Give details of “beyond syllabus scholarly activities” of the department.**
- Moot Court Exercise,
 - Case Analysis,
 - Students Seminar etc.



49) State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

- Bar Council of India [In the Process]

50) Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- Students have been writing various Legal Research Articles, Essays and many of these are published;
- Faculty have authored many legal research Articles and that have generated new knowledge.

51) Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

- Multidisciplinary teaching method;
- Young, energetic and well qualified faculties;
- Well-equipped Library facilities;
- Availability of Computer and Science Laboratory;
- Co-operation from support staff and other administrative Officers.

Weaknesses:

- Locational Disadvantage of the University in Gaya;
- Deficiencies of required faculties;
- Infrastructural inadequacies [Building & Class Rooms];
- Problems to train the students from rural areas with poor English background;
- Internet connectivity Problem;

Opportunities:

- Opportunities to utilize the young qualified faculty;
- Opportunities to utilize well equipped library;
- Opportunities to avail interdisciplinary teaching methodology;
- Opportunities to impart education to the students from poor rural background from different parts of the country;

Challenges:

- Challenges to train the students from rural areas with poor English background;
- Challenges to carry on day to day activities in poor infrastructural inadequacies;
- Challenge to establish the school at par with international standard;
- Challenge to place the students in the job market;



- Challenge to bring well qualified professors [Guest] from different foreign Universities of repute.

52) Future plans of the department.

- To establish separate:
 - i. Centre for Corporate laws & Corporate governance;
 - ii. Centre for Intellectual Property Laws;
 - iii. Centre for Human Rights & Constitutional Law;
 - iv. Centre for Environmental Laws;
 - v. Centre for Criminal laws and Criminology;
 - vi. Centre for Cyber Laws & Cyber forensic;
 - vii. Centre for International Laws
- To start Master of Laws[LL.M.] programme;
- To start Ph.D. programme in Law or M.Phil-Ph.D Programme in Law;
- To make a separate Law Library with reading room with full of resources and infrastructure;
- To subscribe at least 4/5 online law journals & Legal Database;
- To impart quality legal education to the students so that they can compete with others in the legal services & job markets when they will complete their courses;
- To establish an Employment Assistance Cell for the law students where students will be informed and trained regarding different job opportunities in National & International Level;

- To start LL.D. Programme in Law;
- To make the school as one of the excellent Schools of Law and Governance which will be at par with any Law Schools of national and international repute;
- To introduce faculties and students exchange programme with Law Schools of any eminent foreign Universities through our University.



Evaluative Report of School of Physical and Chemical Sciences (Department of Chemistry)



Department of Chemistry

1. **Name of the Department:** Department of Chemistry
2. **Year of establishment :** yet to be established
3. **Is the Department part of a School/Faculty of the university?**
Yes ; Part of School of Physical and Chemical Sciences
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**
Department not functional, Only providing support to B.Sc.B.Ed and B.Sc.LLB programme.
5. **Interdisciplinary programmes and departments involved**
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
Nil
7. **Details of programmes discontinued, if any, with reasons**
Nil
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**
Semester
9. **Participation of the department in the courses offered by other departments**
B.Sc.B.Ed and B.Sc.LLB
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate**
No Information Nil

	Sanctioned	Filled	Actual Including CAS &MPS
Professor			
AssociateProfessor			
Asst. Professor			
Others			

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Girish Chandr	Ph.D.	Assistant Professor	Organic and Medicinal	7	No



a			Chemistry		
Amiya Priyam	Ph.D.	Assistant Professor	Inorganic and Nanochemistry	6.5	(1 PhD student guided at BIT Mesra)

12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors**
Nil
13. **Percentage of classes taken by temporary faculty – programme-wise information**
No
14. **Programme-wise Student Teacher Ratio**
Department not functional
15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:** Centralised office system (No staff sanctioned under Chemistry Department)
16. **Research thrust areas as recognized by major funding agencies**
 1. Organic Chemistry
 2. Medicinal Chemistry
 3. Nanotechnology
17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**
 1. Dr. Girish Chandra: National Project, Department of Science and Technology Under Fast Track Scheme, 21,00,000/-received
 2. Dr. Amiya Priyam: National, Department of Science and Technology Under Fast Track Scheme, 27, 00, 000/-
 3. Dr. Amiya Priyam: National, Department of Science and Technology under Nano Science Mission, 48.4 LAKHS
 4. Dr. Amiya Priyam, National, UGC-DAE-CSR, 15 LAKHS
18. **Inter-institutional associated grants received and collaborative projects and**
Dr. Amiya Priyam, National collaboration,
Collaboration with UGC-DAE-CSR
19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**
No, Not eligible, because we are not running M.Sc. course.
20. **Research facility / centre with**



- No Research facilities
- State recognition No
 - National recognition No
 - International recognition No
21. **Special research laboratories sponsored by / created by industry or corporate bodies** : No
22. **Publications:**

Dr. Girish Chandra:- 04

1. **Girish Chandra**, Yang Won Moon, Yoonji Lee, Ji Yong Jang, Jayoung Song, Akshata Nayak, Kawon Oh, Varughese A. Mulamootil, Pramod K. Sahu, Gyudong Kim, Tong-Shin Chang, Minsoo Noh, Sang Kook Lee, Sun Choi, and Lak Shin Jeong. ;
2. Synthesis and Anti-Renal Fibrosis Activity of Conformationally Locked Truncated 2-Hexynyl- N^6 -Substituted-(N)-Methanocarba-nucleosides as A_3 Adenosine Receptor Antagonists and Partial Agonists.
Journal of Medicinal Chemistry, 58 (12), 5108–5120, 2015. **Impact Factor: 5.45.**
3. Akshata Nayak, **Girish Chandra**, Inah Hwang, Kyunglim Kim, Xiyan Hou, Hea Ok Kim, Pramod K. Sahu, Kuldeep K. Roy, Jakyung Yoo, Yoonji Lee, Minghua Cui, Sun Choi, Steven M. Moss, Khai Phan, Zhan-Guo Gao, Hunjoo Ha, Kenneth A. Jacobson, and Lak Shin Jeong.
Journal of Medicinal Chemistry, 57, 1344-1354, 2014.
4. “Citrate–hydrazine hydrogen-bonding driven single-step synthesis of tunable near-IR plasmonic, anisotropic silver nanocrystals: implications for SERS spectroscopy of inorganic oxoanions”
S. Pattanayak, A.Swarnkar, **A.Priyam*** and G.M. Bhalerao (2014). **Dalton Transactions**, 43, 11826-11833 (2014) (Impact Factor: 4.1)

Book Chapter:

1. Chemical Synthesis of Nucleosides Analogues, Pedro Merino (Editor), Book Chapter: “Recent Advances in Synthesis and Biological activity of 4'-Thionucleosides.” Varughese Alexander, Mahesh Satu Majik, **Girish Chandra**, Lak Shin Jeong. ; **Publisher: Wiley-VCH, page no: 655**
2. Structure–Activity Relationships of Neplanocin A Analogues as *S*-Adenosylhomocysteine Hydrolyase Inhibitors and Their Antiviral and Antitumor Activities. **2013, ISBN: 978-1-118-00751-8.**
 - Number of papers published in peer reviewed journals (national / international)
1 Paper, Dalton Transaction, 2014, International Publication
1 Papers, Journal of Medicinal Chemistry, 2014, International Journal
1 Papers, Journal of Medicinal Chemistry, 2015, International Journal



- Monographs : NO
- Chapters in Books : yes (**one**), Wiley-VCH, ISBN: 978-1-118-00751-8
- **Edited Books** : NO
- **Books with ISBN with details of publishers** : NO
- *Number listed in International Database (For e.g. Web of Science, Scopus,*
- Number listed in International Database (For e.g. Web of Science, Scopus,
 1. Dr. Amiya Priyam,
Web of Science (Thomson Reuters) Researcher ID: B-4164-2010
Scopus Author ID: 9338380100
 2. Dr. Girish Chandra,
Scopus Author ID: 16490346700

Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : NO

23. **Details of patents and income generated**
NO
24. **Areas of consultancy and income generated**
NO
25. **Faculty selected nationally / internationally to visit other laboratories / institutions/industries in India and abroad**
NO
26. **Faculty serving in**
 - a) National committees b) International committees c) Editorial Boards
 - d) any other (please specify) YesFaculties serving as members of Peer-Review board of International Journals:
 - 1. Dr. Girish Chandra**
 - (i) Journal : Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry (Publisher: Taylor and Francis)
 - 2. Dr. Amiya Priyam**
 - (i) Journal: Nanoscale (Publisher: Royal Society of Chemistry, London)
 - (ii) Journal: Chemical Communications (Publisher: Royal Society of Chemistry, London)
 - (iii) Journal: Journal of Materials Chemistry (Publisher: Royal Society of Chemistry, London)
 - (iv) Journal: Dalton Transactions (Publisher: Royal Society of Chemistry, London)Journal: RSC Advances (Publisher: Royal Society of Chemistry, London)
 - (v) Journal: CrystEngComm (Publisher: Royal Society of Chemistry, London)
 - (vi) Journal: ACS Applied Materials and Interface (American Chemical Society)
 - (vii) Journal: Materials Chemistry and Physics (Elsevier)
 - (viii) Journal: Journal of Luminescence (Elsevier)



- (ix) Journal: Journal of Colloids and Interface (Elsevier)
- (x) Journal of Thermal Analysis and Calorimetry (Publisher: Springer)

27. **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).** NO

28. **Student projects** NO

- **Percentage of students who have done in-house projects including inter-departmental projects** NO
- **Percentage of students doing projects in collaboration with other universities /industry / institute** NO

29. **Awards / recognitions received at the national and international level by**

- Faculty NO
- Doctoral / post doctoral fellows NO
- Students NO

30. **Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**
NO

31. **Code of ethics for research followed by the departments**
YES

32. **Student profile programme-wise:** Department is not functional

33. **Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries

34. **How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**
NO



35. **Student progression**

Student progression	Percentage against enrolled
UG to PG	NA
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	Nil
Entrepreneurs	Nil

36. **Diversity of staff**

No Staff

Percentage of faculty who are graduates of the same University 0%

from other universities within the State from universities 0%

from other States from universities outside the country 100 %

37. **Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : No**

38. **Present details of departmental infrastructural facilities with regard to**

a) Library: No

b) Internet facilities for staff and students: No

c) Total number of class rooms:

d) Class rooms with ICT facility:

e) Students' laboratories: No

f) Research laboratories: No

39. **List of doctoral, post-doctoral students and Research Associates**

a) **from the host institution/university:** Four Research students under four projects, JRF

b) **from other institutions/universities :** No

40. **Number of post graduate students getting financial assistance from the university.**
No

41. **Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**



- Department is not functional, not allowed to do such thing.
42. **Does the department obtain feedback from?** NIL
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
 - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
 - alumni and employers on the programmes offered and how does the department utilize the feedback?
43. **List the distinguished alumni of the department (maximum 10) :** No
44. **Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts :** No
45. **List the teaching methods adopted by the faculty for different programmes.**
- Regular use of 3-D models, Power point presentation and video to illustrate the key concepts
 - Students assignment also include power point presentation, drawing molecular structure and class seminar
46. **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**
- No Programme
47. **Highlight the participation of students and faculty in extension activities.**
- Faculties actively engaged in teaching and research
 - Faculties are actively engaged as reviewers for internationally reputed society journals like American Chemical Society, Royal Society of Chemistry and other publishers such as Springer and Elsevier
48. **Give details of “beyond syllabus scholarly activities” of the department.**
- Organized students seminar and other activities through science club
- Guiding students to make a popular Short Science Film which will be presented in National Science Film Festival to be held in Feb 2016.
49. **State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**
- No
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.
- Research papers published in American chemical society (Journal of Medicinal Chemistry) and Royal Society of Chemistry (Dalton Transaction)
 - Four projects worth more than one crore from different funding agencies (DST, Nano-Mission and UGC-DAE)



51. **Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**
Department not functional
52. **Future plans of the department.**
Need to start M.Sc. and Ph.D. programmes.

Annexure-1 (A) : Central Universities Act-2009

Concept Papers

रजिस्ट्री नं. डी. एन. (एन) 04/0007/2003-09

REGISTERED NO. DL. (N) 04/0007/2003-09



भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग II — खण्ड I

PART II — Section 1

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 27]

नई दिल्ली, शुक्रवार, मार्च 20, 2009 / 29 फाल्गुन, 1930

No. 27]

NEW DELHI, FRIDAY, MARCH 20, 2009 / 29 Phalguna, 1930

इस भाग में विन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
Separate paging is given to this Part in order that it may be filed as a separate compilation.

MINISTRY OF LAW AND JUSTICE (Legislative Department)

New Delhi, the 20th March, 2009/Phalguna 29, 1930 (Saka)

The following Act of Parliament received the assent of the President on the 20th March, 2009, and is hereby published for general information:—

THE CENTRA

ES ACT, 2009

[20th March, 2009.]

An Act to establish and incorporate universities for teaching and research in the various States and to provide for matters connected therewith or incidental thereto.

BE it enacted by Parliament in the Sixtieth Year of the Republic of India as follows:—

1. (1) This Act may be called the Central Universities Act, 2009.

Short title
and
commencement.

(2) It shall be deemed to have come into force on the 15th day of January, 2009.

2. In this Act, and in all Statutes made hereunder, unless the context otherwise requires,—

Definitions.

(a) "Academic Council" means the Academic Council of the University;

(b) "academic staff" means such categories of staff as are designated as academic staff by the Ordinances;

(c) "Board of Studies" means the Board of Studies of a Department of the University;

(d) "College" means a college maintained by the University;



(e) "Chancellor", "Vice-Chancellor" and "Pro-Vice-Chancellor" mean, respectively, the Chancellor, Vice-Chancellor and Pro-Vice-Chancellor of the University;

(f) "Court" means the Court of the University;

(g) "Department" means a Department of Studies and includes a Centre of Studies;

(h) "distance education system" means the system of imparting education through any means of communication, such as broadcasting, telecasting, internet, correspondence courses, seminars, contact programmes or the combination of any two or more such means;

(i) "employee" means any person appointed by the University and includes teachers and other staff of the University;

(j) "Executive Council" means the Executive Council of the University;

(k) "Hall" means a unit of residence or of corporate life for the students of the University, or of a College or an Institution, maintained by the University;

(l) "Institution" means an academic institution, not being a College, maintained by the University;

(m) "Principal" means the Head of a College or an Institution maintained by the University and includes, where there is no Principal, the person for the time being duly appointed to act as Principal, and in the absence of the Principal, or the acting Principal, a Vice-Principal duly appointed as such;

(n) "Regulations" means the Regulations made by any authority of the University under this Act for the time being in force;

(o) "School" means a School of Studies of the University;

(p) "Statutes" and "Ordinances" mean, respectively, the Statutes and the Ordinances of the University for the time being in force;

(q) "teachers of the University" means Professors, Associate Professors, Assistant Professors and such other persons as may be appointed for imparting instruction or conducting research in the University or in any College or Institution maintained by the University and are designated as teachers by the Ordinances; and

(r) "University" means a University established and incorporated as a University under this Act.

Establishment
of
Universities.

3. (1) The Guru Ghasidas Vishwavidyalaya in the State of Chhattisgarh and Doctor Harisingh Gour Vishwavidyalaya in the State of Madhya Pradesh, established under the Madhya Pradesh Vishwavidyalaya Adhiniyam, 1973, and Hemvati Nandan Bahuguna Garhwal University in the State of Uttarakhand, established under the Uttar Pradesh State Universities Act, 1973, shall be established as bodies corporate under this Act by the same names of "Guru Ghasidas Vishwavidyalaya", "Doctor Harisingh Gour Vishwavidyalaya" and "Hemvati Nandan Bahuguna Garhwal University", respectively.

Madhya
Pradesh Act
22 of 1973.
President's Act
10 of 1973.

(2) The headquarters of Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya and Hemvati Nandan Bahuguna Garhwal University shall be at Bilaspur, Sagar and Srinagar, respectively.

(3) The jurisdiction of Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya and Hemvati Nandan Bahuguna Garhwal University, shall extend to the Bilaspur, Raigarh and Surguja districts of the State of Chhattisgarh, the Sagar, Tikamgarh, Chhatrapur, Panna, Chhindwara and Damoh districts of the State of Madhya Pradesh, and the Chamoli, Dehradun, Garhwal, Hardwar, Rudraprayag, Tehri Garhwal and Uttarkashi districts of the State of Uttarakhand, respectively.



(4) There shall be established, the Universities in the various States as bodies corporate, by such names and territorial jurisdiction, as specified in the First Schedule to this Act.

(5) The headquarters of each of the Universities, referred to in sub-section (4), shall be such as may be specified by the Central Government by notification in the Official Gazette.

(6) The first Chancellor, the first Vice-Chancellor and the first members of the Court, the Executive Council and the Academic Council of each University, and all persons who may hereafter become such officers or members, so long as they continue to hold such office or membership, are hereby constituted a body corporate by the name of the University.

(7) The University shall have perpetual succession and a common seal, and shall sue and be sued by the said name.

4. On and from the date of commencement of this Act,—

Effect of
establishment
of
Universities.

(a) any reference to Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya or Hemvati Nandan Bahuguna Garhwal University, in any contract or other instrument shall be deemed as a reference to Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya, and Hemvati Nandan Bahuguna Garhwal University, respectively, established under this Act;

(b) all properties, movable and immovable, of or belonging to Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya and Hemvati Nandan Bahuguna Garhwal University, shall vest in Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya or Hemvati Nandan Bahuguna Garhwal University, as the case may be, established under this Act;

(c) all rights and liabilities of Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya and Hemvati Nandan Bahuguna Garhwal University, shall be transferred to, and be the rights and liabilities of, Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya and Hemvati Nandan Bahuguna Garhwal University, respectively, established under this Act;

(d) every person employed by Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya and Hemvati Nandan Bahuguna Garhwal University, immediately before the commencement of this Act shall hold his office or service in Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya and Hemvati Nandan Bahuguna Garhwal University, respectively, established under this Act by the same tenure, at the same remuneration and upon the same terms and conditions and with the same rights and privileges as to pension, leave, gratuity, provident fund and other matters as he would have held the same if this Act had not been enacted and shall continue to do so unless and until his employment is terminated or until such tenure, remuneration and terms and conditions are duly altered by the Statutes:

Provided that if the alteration so made is not acceptable to such employee, his employment may be terminated by the University in accordance with the terms of the contract with the employee or, if no provision is made therein in this behalf, on payment, to him by the University, of compensation equivalent to three months' remuneration in case of permanent employees and one month's remuneration in the case of other employees:

Provided further that every person employed before the commencement of this Act, pending the execution of a contract under section 33, shall be deemed to have been appointed in accordance with the provisions of a contract consistent with the provisions of this Act and the Statutes:

Provided also that any reference, by whatever form of words, to the Vice-Chancellor and Pro-Vice-Chancellor of Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya or Hemvati Nandan Bahuguna Garhwal University, in any law for the time being in force, or in any instrument or other document, shall be

1506/504-15



construed as a reference to the Vice-Chancellor and the Pro-Vice-Chancellor of Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya or Hemvati Nandan Bahuguna Garhwal University, as the case may be, established under this Act;

(e) the Vice-Chancellors of Guru Ghasidas Vishwavidyalaya and Doctor Harisingh Gour Vishwavidyalaya, appointed under the provisions of the Madhya Pradesh Vishwavidyalaya Adhiniyam, 1973, and the Vice-Chancellor of Hemvati Nandan Bahuguna Garhwal University, appointed under the provisions of the Uttar Pradesh State Universities Act, 1973, shall be deemed to have been appointed as the Vice-Chancellors under this Act, and shall hold office for a period of three months or till such time the first Vice-Chancellor is appointed under section 44 of the Act, whichever is earlier; and

Madhya Pradesh Act 22 of 1973. President's Act 10 of 1973.

(f) all Colleges, Institutions, Schools or Faculties, and Departments affiliated to, or admitted to the privileges of, or maintained by, Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya and Hemvati Nandan Bahuguna Garhwal University shall stand affiliated to, or admitted to the privileges of, or maintained by, Guru Ghasidas Vishwavidyalaya, Doctor Harisingh Gour Vishwavidyalaya and Hemvati Nandan Bahuguna Garhwal University, respectively, established under this Act.

Objects of University.

5. The objects of the University shall be to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit; to make special provisions for integrated courses in humanities, social sciences, science and technology in its educational programmes; to take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research; to educate and train manpower for the development of the country; to establish linkages with industries for the promotion of science and technology; and to pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development.

Powers of University.

6. (1) The University shall have the following powers, namely:—

(i) to provide for instructions in such branches of learning like natural sciences, social sciences, humanities, engineering, technology and medicine as the University may, from time to time, determine and to make provisions for research and for the advancement and dissemination of knowledge;

(ii) to grant, subject to such conditions as the University may determine, diplomas or certificates to, and confer degrees or other academic distinctions on, persons, on the basis of examinations, evaluation or any other method of testing, and to withdraw any such diplomas, certificates, degrees or other academic distinctions for good and sufficient cause;

(iii) to organise and to undertake extramural studies, training and extension services;

(iv) to confer honorary degrees or other distinctions in the manner prescribed by the Statutes;

(v) to provide facilities through the distance education system to such persons as it may determine;

(vi) to institute Principalships, Professorships, Associate Professorships, Assistant Professorships and other teaching or academic positions, required by the University and to appoint persons to such Principalships, Professorships, Associate Professorships, Assistant Professorships or other teaching or academic positions;

(vii) to recognise an institution of higher learning for such purposes as the University may determine and to withdraw such recognition;



(viii) to appoint persons working in any other University or academic institution, including those located outside the country, as teachers of the University for a specified period;

(ix) to create administrative, ministerial and other posts and to make appointments thereto;

(x) to co-operate or collaborate or associate with any other University or authority or institution of higher learning, including those located outside the country, in such manner and for such purposes as the University may determine;

(xi) to establish such centres and specialised laboratories or other units for research and instruction as are, in the opinion of the University, necessary for the furtherance of its objects;

(xii) to institute and award fellowships, scholarships, studentships, medals and prizes;

(xiii) to establish and maintain Colleges, Institutions and Halls;

(xiv) to make provision for research and advisory services and for that purpose to enter into such arrangements with other institutions, industrial or other organisations, as the University may deem necessary;

(xv) to organise and conduct refresher courses, workshops, seminars and other programmes for teachers, evaluators and other academic staff;

(xvi) to appoint on contract or otherwise visiting Professors, Emeritus Professors, Consultants and such other persons who may contribute to the advancement of the objects of the University;

(xvii) to confer autonomous status on a College or an Institution or a Department, as the case may be, in accordance with the Statutes;

(xviii) to determine standards of admission to the University, which may include examination, evaluation or any other method of testing;

(xix) to demand and receive payment of fees and other charges;

(xx) to supervise the residences of the students of the University and to make arrangements for promoting their health and general welfare;

(xxi) to lay down conditions of service of all categories of employees, including their code of conduct;

(xxii) to regulate and enforce discipline among the students and the employees, and to take such disciplinary measures in this regard as may be deemed by the University to be necessary;

(xxiii) to make arrangements for promoting the health and general welfare of the employees;

(xxiv) to receive benefactions, donations and gifts and to acquire, hold and manage, and to dispose of, with the previous approval of the Central Government, any property, movable or immovable, including trust and endowment properties, for the purposes of the University;

(xxv) to borrow, with the previous approval of the Central Government, on the security of the property of the University, money for the purposes of the University; and

(xxvi) to do all such other acts and things as may be necessary, incidental or conducive to the attainment of all or any of its objects.

(2) In exercising its powers referred to in sub-section (1), it shall be the endeavour of the University to maintain an all-India character and high standards of teaching and research.



and the University shall, among other measures which may be necessary for the said purpose, take, in particular, the following measures, namely:—

(i) admission of students and recruitment of faculty shall be made on all-India basis;

(ii) admissions of students shall be made on merit, either through Common Entrance Tests conducted individually by the University or in combination with other Universities, or on the basis of marks obtained in the qualifying examination in such courses where the intake of students is small;

(iii) inter-University mobility of faculty, with portable pensions and protection of seniority, shall be encouraged;

(iv) semester system, continuous evaluation and choice-based credit system shall be introduced and the University shall enter into agreements with other Universities and academic institutions for credit transfer and joint degree programmes;

(v) innovative courses and programmes of studies shall be introduced with a provision for periodic review and restructuring;

(vi) active participation of students shall be ensured in all academic activities of the University, including evaluation of teachers;

(vii) accreditation shall be obtained from the National Assessment and Accreditation Council or any other accrediting agency at the national level; and

(viii) e-governance shall be introduced with an effective management information system.

University
open to all
castes, creed,
race or class.

7. The University shall be open to persons of either sex and of whatever caste, creed, race or class, and it shall not be lawful for the University to adopt or impose on any person, any test whatsoever of religious belief or profession in order to entitle him to be appointed as a teacher of the University or to hold any other office therein or to be admitted as a student in the University or to graduate thereat or to enjoy or exercise any privilege thereof:

Provided that nothing in this section shall be deemed to prevent the University from making special provisions for the employment or admission of women, persons with disabilities or of persons belonging to the weaker sections of the society and, in particular, of the Scheduled Castes, the Scheduled Tribes and the other socially and educationally backward classes of citizens:

Provided further that no such special provision shall be made on the ground of domicile.

Visitor of
University.

8. (1) The President of India shall be the Visitor of the University.

(2) The Visitor may, from time to time, appoint one or more persons to review the work and progress of the University, including Colleges and Institutions maintained by it, and to submit a report thereon; and upon receipt of that report, the Visitor may, after obtaining the views of the Executive Council thereon through the Vice-Chancellor, take such action and issue such directions, as he considers necessary, in respect of any of the matters dealt with in the report and the University shall abide by such action and be bound to comply with such directions.

(3) The Visitor shall have the right to cause an inspection to be made by such person or persons, as he may direct, of the University, its buildings, libraries, laboratories and equipment, and of any College or Institution maintained by the University; and also of the examinations, teaching and other work conducted or done by the University and to cause an inquiry to be made in like manner in respect of any matter connected with the administration or finances of the University, Colleges or Institutions.



(4) The Visitor shall, in every matter referred to in sub-section (3), give notice of his intention to cause an inspection or inquiry to be made, to the University, and the University shall have the right to make such representations to the Visitor, as it may consider necessary.

(5) After considering the representations, if any, made by the University, the Visitor may cause to be made such inspection or inquiry as is referred to in sub-section (3).

(6) Where any inspection or inquiry has been caused to be made by the Visitor, the University shall be entitled to appoint a representative, who shall have the right to be present and be heard at such inspection or inquiry.

(7) The Visitor may, if the inspection or inquiry is made in respect of the University or any College or Institution maintained by it, address the Vice-Chancellor with reference to the result of such inspection or inquiry together with such views and advice with regard to the action to be taken thereon, as the Visitor may be pleased to offer, and on receipt of address made by the Visitor, the Vice-Chancellor shall communicate, to the Executive Council, the views of the Visitor with such advice as the Visitor may offer upon the action to be taken thereon.

(8) The Executive Council shall communicate through the Vice-Chancellor to the Visitor such action, if any, as it proposes to take or has been taken upon the result of such inspection or inquiry.

(9) Where, the Executive Council does not, within a reasonable time, take action to the satisfaction of the Visitor, the Visitor may, after considering any explanation furnished or representation made by the Executive Council, issue such directions, as he may think fit, and the Executive Council shall comply with such directions.

(10) Without prejudice to the foregoing provisions of this section, the Visitor may, by order in writing, annul any proceeding of the University which is not in conformity with this Act, the Statutes or the Ordinances:

Provided that before making any such order, he shall call upon the Registrar to show cause why such an order should not be made, and, if any cause is shown within a reasonable time, he shall consider the same.

(11) The Visitor shall have such other powers as may be prescribed by the Statutes.

9. The following shall be the officers of the University, namely:—

Officers of
University.

- (1) the Chancellor;
- (2) the Vice-Chancellor;
- (3) the Pro-Vice-Chancellor;
- (4) the Deans of Schools;
- (5) the Registrar;
- (6) the Finance Officer;
- (7) the Controller of Examinations;
- (8) the Librarian; and

(9) such other officers as may be declared by the Statutes to be the officers of the University.

10. (1) The Chancellor shall be appointed by the Visitor in such manner as may be prescribed by the Statutes. Chancellor.

(2) The Chancellor shall, by virtue of his office, be the head of the University and shall, if present, preside at the Convocations of the University held for conferring degrees and meetings of the Court.



Vice-
Chancellor.

11. (1) The Vice-Chancellor shall be appointed by the Visitor in such manner as may be prescribed by the Statutes.

(2) The Vice-Chancellor shall be the principal executive and academic officer of the University and shall exercise general supervision and control over the affairs of the University and give effect to the decisions of all the authorities of the University.

(3) The Vice-Chancellor may, if he is of the opinion that immediate action is necessary on any matter, exercise any power conferred on any authority of the University by or under this Act and shall report to such authority at its next meeting the action taken by him on such matter:

Provided that if the authority concerned is of the opinion that such action ought not to have been taken, it may refer the matter to the Visitor whose decision thereon shall be final:

Provided further that any person in the service of the University who is aggrieved by the action taken by the Vice-Chancellor under this sub-section shall have the right to represent against such action to the Executive Council within three months from the date on which decision on such action is communicated to him and thereupon the Executive Council may confirm, modify or reverse the action taken by the Vice-Chancellor.

(4) The Vice-Chancellor, if he is of the opinion that any decision of any authority of the University is beyond the powers of the authority conferred by the provisions of this Act, the Statutes or the Ordinances or that any decision taken is not in the interest of the University, may ask the authority concerned to review its decision within sixty days of such decision and if the authority refuses to review the decision either in whole or in part or no decision is taken by it within the said period of sixty days, the matter shall be referred to the Visitor whose decision thereon shall be final.

(5) The Vice-Chancellor shall exercise such other powers and perform such other duties as may be prescribed by the Statutes or the Ordinances.

Pro-Vice-
Chancellor.

12. The Pro-Vice-Chancellor shall be appointed in such manner and on such terms and conditions of service, and shall exercise such powers and perform such duties, as may be prescribed by the Statutes.

Deans of
Schools.

13. Every Dean of School shall be appointed in such manner, and shall exercise such powers and perform such duties, as may be prescribed by the Statutes.

Registrar.

14. (1) The Registrar shall be appointed in such manner, and on such terms and conditions of service, as may be prescribed by the Statutes.

(2) The Registrar shall have the power to enter into agreements, sign documents and authenticate records on behalf of the University, and shall exercise such powers and perform such duties, as may be prescribed by the Statutes.

Finance
Officer.

15. The Finance Officer shall be appointed in such manner, and shall exercise such powers and perform such duties, as may be prescribed by the Statutes.

Controller of
Examinations.

16. The Controller of Examinations shall be appointed in such manner and shall exercise such powers and perform such duties, as may be prescribed by the Statutes.

Librarian.

17. The Librarian shall be appointed in such manner and on such terms and conditions of service, and shall exercise such powers and perform such duties, as may be prescribed by the Statutes.

Other
officers.

18. The manner of appointment and powers and duties of other officers of the University shall be prescribed by the Statutes.

Authorities of
University.

19. The following shall be the authorities of the University, namely:—

(1) the Court;

(2) the Executive Council;



- (3) the Academic Council;
- (4) the Board of Studies;
- (5) the Finance Committee; and

(6) such other authorities as may be declared by the Statutes to be the authorities of the University.

20. (1) The constitution of the Court and the term of office of its members shall be prescribed by the Statutes: The Court.

Provided that such number of members, as may be prescribed by the Statutes, shall be elected from among the teachers, employees and students of the University.

(2) Subject to the provisions of this Act, the Court shall have the following powers and functions, namely:—

- (a) to review, from time to time, the broad policies and programmes of the University, and to suggest measures for the improvement and development of the University;
- (b) to consider and pass resolutions on the annual report and the annual accounts of the University and the audit report on such accounts;
- (c) to advise the Visitor in respect of any matter which may be referred to it for advice; and
- (d) to perform such other functions as may be prescribed by the Statutes.

21. (1) The Executive Council shall be the principal executive body of the University. Executive Council.

(2) The constitution of the Executive Council, the term of office of its members and its powers and functions shall be prescribed by the Statutes:

Provided that such number of members as may be prescribed by the Statutes shall be from among the elected members of the Court.

22. (1) The Academic Council shall be the principal academic body of the University and shall, subject to the provisions of this Act, the Statutes and the Ordinances, co-ordinate and exercise general supervision over the academic policies of the University. Academic Council.

(2) The constitution of the Academic Council, the term of office of its members and its powers and functions shall be prescribed by the Statutes:

Provided that such number of members as may be prescribed by the Statutes shall be from among the elected members of the Court.

23. The constitution, powers and functions of the Boards of Studies shall be prescribed by the Statutes. Boards of Studies.

24. The constitution, powers and functions of the Finance Committee shall be prescribed by the Statutes. Finance Committee.

25. The constitution, powers and functions of other authorities, as may be declared by the Statutes to be the authorities of the University, shall be prescribed by the Statutes. Other authorities of University.

26. Subject to the provisions of this Act, the Statutes may provide for all or any of the following matters, namely:— Powers to make Statutes.

(a) the constitution, powers and functions of authorities and other bodies of the University, as may be constituted from time to time;

(b) the appointment and continuance in office of the members of the said authorities and bodies, the filling up of vacancies of members, and all other matters



relating to those authorities and other bodies for which it may be necessary or desirable to provide;

(c) the appointment, powers and duties of the officers of the University and their emoluments;

(d) the appointment of teachers, academic staff and other employees of the University, their emoluments and conditions of service;

(e) the appointment of teachers and academic staff working in any other University or organisation for a specific period for undertaking a joint project;

(f) the conditions of service of employees including provisions for pension, insurance, provident fund, the manner of termination of service and disciplinary action;

(g) the principles governing the seniority of service of the employees of the University;

(h) the procedure for arbitration in cases of dispute between employees or students and the University;

(i) the procedure for appeal to the Executive Council by any employee or student against the action of any officer or authority of the University;

(j) the conferment of autonomous status on a College or an Institution or a Department;

(k) the establishment and abolition of Schools, Departments, Centres, Halls, Colleges and Institutions;

(l) the conferment of honorary degrees;

(m) the withdrawal of degrees, diplomas, certificates and other academic distinctions;

(n) the management of Colleges and Institutions established by the University;

(o) the delegation of powers vested in the authorities or officers of the University;

(p) the maintenance of discipline among the employees and students; and

(q) all other matters which by this Act are to be, or may be, provided for by the Statutes.

Statutes, how
to be made.

27. (1) The first Statutes are those set out in the Second Schedule to this Act.

(2) The Executive Council may, from time to time, make new or additional Statutes or may amend or repeal the Statutes referred to in sub-section (1):

Provided that the Executive Council shall not make, amend or repeal any Statutes affecting the status, powers or constitution of any authority of the University until such authority has been given an opportunity of expressing an opinion in writing on the proposed changes, and any opinion so expressed shall be considered by the Executive Council.

(3) Every new Statute or addition to the Statutes or any amendment or repeal of a Statute shall require the assent of the Visitor who may assent thereto or withhold assent or remit to the Executive Council for re-consideration.

(4) A new Statute or a Statute amending or repealing an existing Statute shall have no validity unless it has been assented to by the Visitor.

(5) Notwithstanding anything contained in the foregoing sub-sections, the Visitor may make new or additional Statutes or amend or repeal the Statutes referred to in sub-section (1) during the period of three years immediately after the commencement of this Act:

Provided that the Visitor may, on the expiry of the said period of three years, make, within one year from the date of such expiry, such detailed Statutes as he may consider necessary and such detailed Statutes shall be laid before both Houses of Parliament.



(6) Notwithstanding anything contained in this section, the Visitor may direct the University to make provisions in the Statutes in respect of any matter specified by him and if the Executive Council is unable to implement such direction within sixty days of its receipt, the Visitor may, after considering the reasons, if any, communicated by the Executive Council for its inability to comply with such direction, make or amend the Statutes suitably.

28. (1) Subject to the provisions of this Act and the Statutes, the Ordinances may provide for all or any of the following matters, namely:—

Power to
make
Ordinances.

- (a) the admission of students to the University and their enrolment as such;
- (b) the courses of study to be laid down for all degrees, diplomas and certificates of the University;
- (c) the medium of instruction and examination;
- (d) the award of degrees, diplomas, certificates and other academic distinctions, the qualifications for the same and the means to be taken relating to the granting and obtaining of the same;
- (e) the fees to be charged for courses of study in the University and for admission to examinations, degrees and diplomas of the University;
- (f) the conditions for award of fellowships, scholarships, studentships, medals and prizes;
- (g) the conduct of examinations, including the term of office and manner of appointment and the duties of examining bodies, examiners and moderators;
- (h) the conditions of residence of the students of the University;
- (i) the special arrangements, if any, which may be made for the residence and teaching of women students and the prescribing of special courses of studies for them;
- (j) the establishment of Centres of Studies, Boards of Studies, Specialised Laboratories and other Committees;
- (k) the manner of co-operation and collaboration with other Universities, institutions and other agencies including learned bodies or associations;
- (l) the creation, composition and functions of any other body which is considered necessary for improving the academic life of the University;
- (m) the institution of fellowships, scholarships, studentships, medals and prizes;
- (n) the setting up of a machinery for redressal of grievances of employees and students; and
- (o) all other matters which by this Act, or, the Statutes, are to be, or, may be, provided for by the Ordinances.

(2) The first Ordinances shall be made by the Vice-Chancellor with the previous approval of the Executive Council and the Ordinances so made may also be amended, repealed or added to at any time by the Executive Council in the manner prescribed by the Statutes:

Provided that in the case of Guru Ghasidas Vishwavidyalaya and Doctor Harisingh Gour Vishwavidyalaya, and Hemvati Nandan Bahuguna Garhwal University, till such time as the first Ordinances are not so made, in respect of the matters that are to be provided for by the Ordinances under this Act and the Statutes, the relevant provisions of the Statutes and the Ordinances made immediately before the commencement of this Act under the provisions of the Madhya Pradesh Vishwavidyalaya Adhiniyam, 1973, and the Uttar Pradesh State Universities Act, 1973, respectively, shall be applicable in so far as they are not inconsistent with the provisions of this Act and the Statutes.

Madhya
Pradesh Act
22 of 1973,
President's
Act 10 of
1973



Regulations.	<p>29. The authorities of the University may make Regulations, consistent with this Act, the Statutes and the Ordinances, for the conduct of their own business and that of the Committees, if any, appointed by them and not provided for by this Act, the Statutes or the Ordinances, in the manner prescribed by the Statutes.</p>
Annual report.	<p>30. (1) The annual report of the University shall be prepared under the direction of the Executive Council, which shall include, among other matters, the steps taken by the University towards the fulfilment of its objects and shall be submitted to the Court on or before such date as may be prescribed by the Statutes and the Court shall consider the report in its annual meeting.</p> <p>(2) The Court shall submit the annual report to the Visitor along with its comments, if any.</p> <p>(3) A copy of the annual report, as prepared under sub-section (1), shall also be submitted to the Central Government, which shall, as soon as may be, cause the same to be laid before both Houses of Parliament.</p>
Annual accounts.	<p>31. (1) The annual accounts and balance-sheet of the University shall be prepared under the direction of the Executive Council and shall, once at least every year and at intervals of not more than fifteen months, be audited by the Comptroller and Auditor-General of India or by such persons as he may authorise in this behalf.</p> <p>(2) A copy of the annual accounts together with the audit report thereon shall be submitted to the Court and the Visitor along with the observations of the Executive Council.</p> <p>(3) Any observations made by the Visitor on the annual accounts shall be brought to the notice of the Court and the observations of the Court, if any, shall, after being considered by the Executive Council, be submitted to the Visitor.</p> <p>(4) A copy of the annual accounts together with the audit report, as submitted to the Visitor, shall also be submitted to the Central Government, which shall, as soon as may be, cause the same to be laid before both Houses of Parliament.</p> <p>(5) The audited annual accounts after having been laid before both Houses of Parliament shall be published in the Gazette of India.</p>
Returns and information.	<p>32. The University shall furnish to the Central Government such returns or other information with respect to its property or activities as the Central Government may, from time to time, require, within such period as may be specified by the Central Government.</p>
Conditions of service of employees, etc.	<p>33. (1) Every employee of the University shall be appointed under a written contract, which shall be lodged with the University and a copy of which shall be furnished to the employee concerned.</p> <p>(2) Any dispute arising out of the contract between the University and any employee shall, at the request of the employee, be referred to a Tribunal of Arbitration consisting of one member appointed by the Executive Council, one member nominated by the employee concerned and an umpire appointed by the Visitor.</p> <p>(3) The decision of the Tribunal shall be final and no suit shall lie in any civil court in respect of the matters decided by the Tribunal.</p> <p>Provided that nothing in this sub-section shall preclude the employee from availing of the judicial remedies available under articles 32 and 226 of the Constitution.</p> <p>(4) Every request made by the employee under sub-section (2) shall be deemed to be a submission to arbitration upon the terms of this section within the meaning of the Arbitration and Conciliation Act, 1996.</p> <p>(5) The procedure for regulating the work of the Tribunal shall be prescribed by the Statutes.</p>



34. (1) Any student or candidate for an examination whose name has been removed from the rolls of the University by the orders or resolution of the Vice-Chancellor, Discipline Committee or Examination Committee, as the case may be, and who has been debarred from appearing at the examinations of the University for more than one year, may, within ten days of the date of receipt of such orders or copy of such resolution by him, appeal to the Executive Council and the Executive Council may confirm, modify or reverse the decision of the Vice-Chancellor or the Committee, as the case may be.

Procedure of appeal and arbitration in disciplinary cases against students.

(2) Any dispute arising out of any disciplinary action taken by the University against a student shall, at the request of such student, be referred to a Tribunal of Arbitration and the provisions of sub-sections (2), (3), (4) and (5) of section 33 shall, as far as may be, apply to a reference made under this sub-section.

35. Every employee or student of the University or of a College or Institution maintained by the University shall, notwithstanding anything contained in this Act, have a right to appeal within such time as may be prescribed by the Statutes, to the Executive Council against the decision of any officer or authority of the University, or, the Principal or the management of any College or an Institution, as the case may be, and thereupon the Executive Council may confirm, modify or reverse the decision appealed against.

Right to appeal.

36. (1) The University shall constitute for the benefit of its employees such provident or pension fund or provide such insurance schemes as it may deem fit in such manner and subject to such conditions as may be prescribed by the Statutes.

Provident and pension funds.

(2) Where such provident fund or pension fund has been so constituted, the Central Government may declare that the provisions of the Provident Funds Act, 1925, shall apply to such fund, as if it were a Government provident fund.

19 of 1925.

37. If any question arises as to whether any person has been duly elected or appointed as, or is entitled to be, a member of any authority or other body of the University, the matter shall be referred to the Visitor whose decision thereon shall be final.

Disputes as to constitution of authorities and bodies.

38. All casual vacancies among the members (other than *ex officio* members) of any authority or other body of the University shall be filled, as soon as may be, by the person or body who appoints, elects or co-opts the member whose place has become vacant and the person appointed, elected or co-opted to a casual vacancy shall be a member of such authority or body for the residue of the term for which the person whose place he fills would have been a member.

Filling of casual vacancies.

39. No act or proceedings of any authority or other body of the University shall be invalid merely by reason of the existence of a vacancy or vacancies among its members.

Proceedings of authorities or bodies not invalidated by vacancies.

40. No suit or other legal proceedings shall lie against any officer or other employee of the University for anything which is in good faith done or intended to be done in pursuance of any of the provisions of this Act, the Statutes or the Ordinances.

Protection of action taken in good faith.

1 of 1872.

41. Notwithstanding anything contained in the Indian Evidence Act, 1872 or in any other law for the time being in force, a copy of any receipt, application, notice, order, proceeding or resolution of any authority or other body of the University, or any other document in possession of the University, or any entry in any register duly maintained by the University, if certified by the Registrar, shall be received as *prima facie* evidence of such receipt, application, notice, order, proceeding, resolution or document or the existence of entry in the register and shall be admitted as evidence of the matters and transactions therein where the original thereof would, if produced, have been admissible in evidence.

Mode of proof of University record.

42. (1) If any difficulty arises in giving effect to the provisions of this Act, the Central Government may, by order published in the Official Gazette, make such provisions, not

Power to remove difficulties.



inconsistent with the provisions of this Act, as appear to it to be necessary or expedient for removing the difficulty:

Provided that no such order shall be made under this section after the expiry of three years from the commencement of this Act.

(2) Every order made under sub-section (1) shall be laid, as soon as may be after it is made, before each House of Parliament, while it is in session, for a total period of thirty days which may be comprised in one session or in two or more successive sessions, and if, before the expiry of the session immediately following the session or the successive sessions aforesaid, both Houses agree in making any modification in the order or both Houses agree that the order should not be made, the order shall thereafter have effect only in such modified form or be of no effect, as the case may be; so, however, that any such modification or annulment shall be without prejudice to the validity of anything previously done under that order.

Statutes,
Ordinances
and
Regulations to
be published
in the Official
Gazette and to
be laid before
Parliament.

43. (1) Every Statute, Ordinances or Regulation made under this Act shall be published in the Official Gazette.

(2) Every Statute, Ordinances or Regulation made under this Act, shall be laid, as soon as may be after it is made, before each House of Parliament, while it is in session, for a total period of thirty days which may be comprised in one session or in two or more successive sessions, and if, before the expiry of the session immediately following the session or the successive sessions aforesaid, both Houses agree in making any modification in the Statute, Ordinances or Regulation or both Houses agree that the Statute, Ordinances or Regulation should not be made, the Statute, Ordinances or Regulation shall thereafter have effect only in such modified form or be of no effect, as the case may be; so, however, that any such modification or annulment shall be without prejudice to the validity of anything previously done under that Statute, Ordinances or Regulation.

(3) The power to make Statutes, Ordinances or Regulations shall include the power to give retrospective effect, from a date not earlier than the date of commencement of this Act, to the Statutes, Ordinances or Regulations or any of them but no retrospective effect shall be given to any Statutes, Ordinances or Regulations so as to prejudicially affect the interests of any person to whom such Statutes, Ordinances or Regulations may be applicable.

Transitional
provisions.

44. Notwithstanding anything contained in this Act and the Statutes,—

(a) the first Chancellor and the first Vice-Chancellor shall be appointed by the Visitor in such manner and on such conditions as may be deemed fit and each of the said officers shall hold office for such term, not exceeding five years, as may be specified by the Visitor;

(b) the first Registrar and the first Finance Officer shall be appointed by the Visitor and each of the said officers shall hold office for a term of three years;

(c) the first Court and the first Executive Council shall consist of not more than thirty-one members and eleven members, respectively, who shall be nominated by the Central Government and shall hold office for a term of three years; and

(d) the first Academic Council shall consist of not more than twenty-one members, who shall be nominated by the Central Government and shall hold office for a term of three years.

Provided that if any vacancy occurs in the above offices or authorities, the same shall be filled by appointment by the Visitor or nomination by the Central Government, as the case may be, and the person so appointed or nominated shall hold office for so long as the officer or member in whose place he is appointed or nominated would have held office, if such vacancy had not occurred.



45. (1) In the Madhya Pradesh Vishwavidyalaya Adhiniyam, 1973, in the Second Schedule, the entries relating to Guru Ghasidas Vishwavidyalaya and Doctor Harisingh Gour Vishwavidyalaya shall be omitted.

Amendment
of Madhya
Pradesh Act
22 of 1973.

(2) Notwithstanding such omission,—

(a) all appointments made, orders issued, degrees and other academic distinctions conferred, diplomas and certificates awarded, privileges granted, or other things done under the Madhya Pradesh Vishwavidyalaya Adhiniyam, 1973, shall be deemed to have been respectively made, issued, conferred, awarded, granted or done under the corresponding provisions of this Act and, except as otherwise provided by this Act or the Statutes, continue in force unless and until they are superseded by any order made under this Act or the Statutes; and

Madhya
Pradesh Act
22 of 1973.

(b) all proceedings of Selection Committees for the appointment or promotion of teachers that took place before the commencement of this Act and all actions of the Executive Council in respect of the recommendations of such Selection Committees where no orders of appointment on the basis thereof were passed before the commencement of this Act shall, notwithstanding that the procedure for selection has been modified by this Act, be deemed to have been valid but further proceeding in connection with such pending selections shall be taken in accordance with the provisions of this Act and be continued from the stage where they stood immediately before such commencement, except if the concerned authorities take, with the approval of the Visitor, a decision to the contrary.

46. (1) In the Uttar Pradesh State Universities Act, 1973,—

Amendment
of President's
Act 10 of
1973.

(a) in sub-section (1) of section 4, the words, figures and brackets "and a University of Garhwal which shall from April 25, 1989 be called the Hemvati Nandan Bahuguna Garhwal University at Srinagar (District Garhwal)" shall be omitted;

(b) in clause (d) of sub-section (1) of section 20, the words "the Hemvati Nandan Bahuguna Garhwal University" shall be omitted;

(c) in sub-section (2) of section 52, for the words "the Universities of Kumaun and Garhwal" the words "the University of Kumaun" shall be substituted;

(d) section 72B shall be omitted;

(e) in the Schedule, Serial No. 8 and the entries relating thereto shall be omitted.

(2) Notwithstanding the omission and substitution referred to in sub-section (1),—

(a) all appointments made, orders issued, degrees and other academic distinctions conferred, diplomas and certificates awarded, privileges granted, or other things done under the Uttar Pradesh State Universities Act, 1973, shall be deemed to have been respectively made, issued, conferred, awarded, granted or done under the corresponding provisions of this Act and, except as otherwise provided by this Act or the Statutes, continue in force unless and until they are superseded by any order made under this Act or the Statutes; and

President's
Act 10 of
1973.

(b) all proceedings of Selection Committees for the appointment or promotion of teachers that took place before the commencement of this Act and all actions of the Executive Council in respect of the recommendations of such Selection Committees where no orders of appointment on the basis thereof were passed before the commencement of this Act shall, notwithstanding that the procedure for selection has been modified by this Act, be deemed to have been valid but further proceeding in connection with such pending selections shall be taken in accordance with the provisions of this Act and be continued from the stage where they stood immediately before such commencement, except if the concerned authorities take, with the approval of the Visitor, a decision to the contrary.



Repeal and
savings.

47. (1) The Central Universities Ordinance, 2009 is hereby repealed.

Ord.3 of
2009.

(2) Notwithstanding such repeal, anything done or any action taken under the said Ordinance shall be deemed to have been done or taken under the corresponding provisions of this Act, and—

(a) all appointments made, orders issued, degrees and other academic distinctions conferred, diplomas and certificates awarded, privileges granted, or other things done under the Central Universities Ordinance, 2009, shall be deemed to have been respectively made, issued, conferred, awarded, granted or done under the corresponding provisions of this Act and, except as otherwise provided by, or under this Act or the Statutes, continue in force unless and until they are superseded by any order made under this Act or the Statutes; and

Ord.3 of
2009.

(b) all proceedings of Selection Committees for the appointment or promotion of teachers that took place before the commencement of this Act and all actions of the Executive Council in respect of the recommendations of such Selection Committees where no orders of appointment on the basis thereof were passed before the commencement of this Act shall, notwithstanding that the procedure for selection has been modified by this Act, be deemed to have been valid but further proceeding in connection with such pending selections shall be taken in accordance with the provisions of this Act and be continued from the stage where they stood immediately before such commencement, except if the concerned authorities take, with the approval of the Visitor, a decision to the contrary.



THE FIRST SCHEDULE

[See section 3(4)]

Serial No.	Name of the State	Name of the University	Territorial jurisdiction
1.	Bihar	Central University of Bihar	Whole of the State of Bihar
2.	Gujarat	Central University of Gujarat	Whole of the State of Gujarat
3.	Haryana	Central University of Haryana	Whole of the State of Haryana
4.	Himachal Pradesh	Central University of Himachal Pradesh	Whole of the State of Himachal Pradesh
5.	Jammu and Kashmir	Central University of Jammu and Kashmir	Whole of the State of Jammu and Kashmir
6.	Jharkhand	Central University of Jharkhand	Whole of the State of Jharkhand
7.	Karnataka	Central University of Karnataka	Whole of the State of Karnataka
8.	Kerala	Central University of Kerala	Whole of the State of Kerala
9.	Orissa	Central University of Orissa	Whole of the State of Orissa
10.	Punjab	Central University of Punjab	Whole of the State of Punjab
11.	Rajasthan	Central University of Rajasthan	Whole of the State of Rajasthan
12.	Tamil Nadu	Central University of Tamil Nadu	Whole of the State of Tamil Nadu



THE SECOND SCHEDULE

(See section 27)

The Statutes of the University

Chancellor.

1. (1) The Chancellor shall be appointed by the Visitor from a panel of not less than three persons recommended by the Executive Council from amongst persons of eminence in the academic or public life of the country:

Provided that if the Visitor does not approve of any of the persons so recommended, he may call for fresh recommendations from the Executive Council.

(2) The Chancellor shall hold office for a term of five years and shall not be eligible for re-appointment:

Provided that notwithstanding the expiry of his term of office, the Chancellor shall continue to hold office until his successor enters upon his office.

Vice-Chancellor.

2. (1) The Vice-Chancellor shall be appointed by the Visitor from out of a panel recommended by a Committee as constituted under clause (2):

Provided that if the Visitor does not approve any of the persons included in the panel, he may call for an extended fresh panel.

(2) The Committee referred to in clause (1) shall consist of five persons, out of whom three shall be nominated by the Executive Council and two by the Visitor, and one of the nominees of the Visitor shall be the convener of the Committee:

Provided that none of the members of the Committee shall be an employee of the University or a College or an Institution maintained by the University or a member of any authority of the University.

(3) The Vice-Chancellor shall be a whole-time salaried officer of the University.

(4) The Vice-Chancellor shall hold office for a term of five years from the date on which he enters upon his office, or until he attains the age of seventy years, whichever is earlier, and he shall not be eligible for re-appointment:

Provided that notwithstanding the expiry of the said period of five years, he shall continue in office until his successor is appointed and enters upon his office:

Provided further that the Visitor may direct any Vice-Chancellor after his term has expired, to continue in office for such period, not exceeding a total period of one year, as may be specified by him.

(5) Notwithstanding anything contained in clause (4), the Visitor may, at any time after the Vice-Chancellor has entered upon his office, by order in writing, remove the Vice-Chancellor from office on grounds of incapacity, misconduct or violation of statutory provisions:

Provided that no such order shall be made by the Visitor unless the Vice-Chancellor has been given a reasonable opportunity of showing cause against the action proposed to be taken against him:

Provided further that the Visitor shall consult the Chancellor also before making such order:

Provided also that the Visitor may, at any time before making such order, place the Vice-Chancellor under suspension, pending enquiry.



(6) The emoluments and other conditions of service of the Vice-Chancellor shall be as follows:—

(i) The Vice-Chancellor shall be paid a monthly salary and allowances, other than house rent allowance, at the rates fixed by the Central Government from time to time and he shall be entitled, without payment of rent, to use a furnished residence throughout his term of office and no charge shall fall on the Vice-Chancellor in respect of the maintenance of such residence.

(ii) The Vice-Chancellor shall be entitled to such terminal benefits and allowances as may be fixed by the Central Government from time to time:

Provided that where an employee of the University, or a College or an Institution maintained by the University, or of any other University or any College or Institution maintained by or admitted to the privileges of, such other University, is appointed as the Vice-Chancellor, he may be allowed to continue to contribute to any provident fund of which he is a member and the University shall contribute to the account of such person in that provident fund at the same rate at which the person had been contributing immediately before his appointment as the Vice-Chancellor:

Provided further that where such employee had been a member of any pension scheme, the University shall make the necessary contribution to such scheme.

(iii) The Vice-Chancellor shall be entitled to travelling allowance at such rates as may be fixed by the Executive Council.

(iv) The Vice-Chancellor shall be entitled to leave on full pay at the rate of thirty days in a calendar year and the leave shall be credited to his account in advance in two half-yearly instalments of fifteen days each on the first day of January and July every year:

Provided that if the Vice-Chancellor assumes or relinquishes charge of the office of the Vice-Chancellor during the currency of a half year, the leave shall be credited proportionately at the rate of two and-a-half days for each completed month of service.

(v) In addition to the leave referred to in sub-clause (iv), the Vice-Chancellor shall also be entitled to half-pay leave at the rate of twenty days for each completed year of service, and half-pay leave may also be availed of as commuted leave on full pay on medical certificate:

Provided that when such commuted leave is availed of, twice the amount of half-pay leave shall be debited against half-pay leave due.

(7) If the office of the Vice-Chancellor becomes vacant due to death, resignation or otherwise, or if he is unable to perform his duties due to ill-health or any other cause, the Pro-Vice-Chancellor shall perform the duties of the Vice-Chancellor:

Provided that if the Pro-Vice-Chancellor is not available, the senior-most Professor shall perform the duties of the Vice-Chancellor until a new Vice-Chancellor assumes office or the existing Vice-Chancellor resumes the duties of his office, as the case may be.

3. (1) The Vice-Chancellor shall be *ex officio* Chairman of the Executive Council, the Academic Council and the Finance Committee and shall, in the absence of the Chancellor, preside at the Convocations held for conferring degrees and at meetings of the Court.

Powers and duties of Vice-Chancellor.

(2) The Vice-Chancellor shall be entitled to be present at, and address, any meeting of any authority or other body of the University, but shall not be entitled to vote thereat unless he is a member of such authority or body.

(3) It shall be the duty of the Vice-Chancellor to see that this Act, the Statutes, the Ordinances and the Regulations are duly observed and he shall have all the powers necessary to ensure such observance.



(4) The Vice-Chancellor shall have all the powers necessary for the proper maintenance of discipline in the University and he may delegate any such powers to such person or persons as he deems fit.

(5) The Vice-Chancellor shall have the power to convene or cause to be convened the meetings of the Executive Council, the Academic Council and the Finance Committee.

Pro-Vice-Chancellor.

4. (1) The Pro-Vice-Chancellor shall be appointed by the Executive Council on the recommendation of the Vice-Chancellor:

Provided that where the recommendation of the Vice-Chancellor is not accepted by the Executive Council, the matter shall be referred to the Visitor who may either appoint the person recommended by the Vice-Chancellor or ask the Vice-Chancellor to recommend another person to the Executive Council:

Provided further that the Executive Council may, on the recommendation of the Vice-Chancellor, appoint a Professor to discharge the duties of the Pro-Vice-Chancellor in addition to his own duties as a Professor.

(2) The term of office of the Pro-Vice-Chancellor shall be such as may be decided by the Executive Council but it shall not in any case exceed five years or until the expiration of the term of office of the Vice-Chancellor, whichever is earlier:

Provided that the Pro-Vice-Chancellor whose term of office has expired shall be eligible for re-appointment:

Provided further that, in any case, the Pro-Vice-Chancellor shall retire on attaining the age of seventy years:

Provided also that the Pro-Vice-Chancellor shall, while discharging the duties of the Vice-Chancellor under clause (7) of Statute 2, continue in office, notwithstanding the expiration of his term of office as Pro-Vice-Chancellor, until the Vice-Chancellor resumes office or a new Vice-Chancellor assumes office, as the case may be.

(3) The emoluments and other terms and conditions of service of the Pro-Vice-Chancellor shall be such as may be prescribed by the Ordinances.

(4) The Pro-Vice-Chancellor shall assist the Vice-Chancellor in respect of such matters as may be specified by the Vice-Chancellor in this behalf, from time to time, and shall also exercise such powers and perform such duties as may be assigned or delegated to him by the Vice-Chancellor.

Deans of Schools.

5. (1) Every Dean of School shall be appointed by the Vice-Chancellor from amongst the Professors in the School by rotation in the order of seniority for a period of three years:

Provided that in case there is only one Professor or no Professor in a School, the Dean shall be appointed, for the time being, from amongst the Professor, if any, and the Associate Professors in the School by rotation in the order of seniority:

Provided further that a Dean on attaining the age of sixty-five years shall cease to hold office as such.

(2) When the office of the Dean is vacant or when the Dean is, by reason of illness, absence or any other cause, unable to perform duties of his office, the duties of the office shall be performed by the senior-most Professor or Associate Professor, as the case may be, in the School.

(3) The Dean shall be the Head of the School and shall be responsible for the conduct and maintenance of the standards of teaching and research in the School and shall have such other functions as may be prescribed by the Ordinances.

(4) The Dean shall have the right to be present and to speak at any meeting of the Boards of Studies or Committees of the School, as the case may be, but shall not have the right to vote thereat unless he is a member thereof.



6. (1) The Registrar shall be appointed by the Executive Council on the recommendation of a Selection Committee constituted for the purpose and shall be a whole-time salaried officer of the University. Registrar.

(2) He shall be appointed for a term of five years and shall be eligible for re-appointment.

(3) The emoluments and other terms and conditions of service of the Registrar shall be such as may be prescribed by the Executive Council from time to time:

Provided that the Registrar shall retire on attaining the age of sixty-two years.

(4) When the office of the Registrar is vacant or when the Registrar is, by reason of illness, absence or any other cause, unable to perform the duties of his office, the duties of the office shall be performed by such person as the Vice-Chancellor may appoint for the purpose.

(5) (a) The Registrar shall have power to take disciplinary action against such of the employees, excluding teachers and other academic staff, as may be specified in the order of the Executive Council and to suspend them pending inquiry, to administer warnings to them or to impose on them the penalty of censure or the withholding of increment:

Provided that no such penalty shall be imposed unless the person has been given a reasonable opportunity of showing cause against the action proposed to be taken in regard to him.

(b) An appeal shall lie to the Vice-Chancellor against any order of the Registrar imposing any of the penalties specified in sub-clause (a).

(c) In a case where the inquiry discloses that a punishment beyond the power of the Registrar is called for, the Registrar shall, upon the conclusion of the inquiry, make a report to the Vice-Chancellor along with his recommendations:

Provided that an appeal shall lie to the Executive Council against an order of the Vice-Chancellor imposing any penalty.

(6) The Registrar shall be *ex officio* Secretary of the Executive Council and the Academic Council, but shall not be deemed to be a member of either of these authorities and he shall be *ex officio* Member-Secretary of the Court.

(7) It shall be the duty of the Registrar—

(a) to be the custodian of the records, the common seal and such other property of the University as the Executive Council shall commit to his charge;

(b) to issue all notices convening meetings of the Court, the Executive Council, the Academic Council and of any Committees appointed by those authorities;

(c) to keep the minutes of all the meetings of the Court, the Executive Council, the Academic Council and of any Committees appointed by those authorities;

(d) to conduct the official correspondence of the Court, the Executive Council and the Academic Council;

(e) to supply to the Visitor, copies of the agenda of the meetings of the authorities of the University as soon as they are issued and the minutes of such meetings;

(f) to represent the University in suits or proceedings by or against the University, sign powers of attorney and verify pleadings or depute his representative for the purpose; and

(g) to perform such other duties as may be specified in the Statutes, the Ordinances or the Regulations or as may be required from time to time by the Executive Council or the Vice-Chancellor.



Finance Officer.

7. (1) The Finance Officer shall be appointed by the Executive Council on the recommendations of a Selection Committee constituted for the purpose and he shall be a whole-time salaried officer of the University.

(2) The Finance Officer shall be appointed for a term of five years and shall be eligible for re-appointment.

(3) The emoluments and other terms and conditions of service of the Finance Officer shall be such as may be prescribed by the Executive Council from time to time:

Provided that the Finance Officer shall retire on attaining the age of sixty-two years.

(4) When the office of the Finance Officer is vacant or when the Finance Officer is, by reason of illness, absence or any other cause, unable to perform the duties of his office, the duties of the office shall be performed by such person as the Vice-Chancellor may appoint for the purpose.

(5) The Finance Officer shall be *ex officio* Secretary of the Finance Committee, but shall not be deemed to be a member of such Committee.

(6) The Finance Officer shall—

(a) exercise general supervision over the funds of the University and shall advise it as regards its financial policy; and

(b) perform such other financial functions as may be assigned to him by the Executive Council or as may be prescribed by the Statutes or the Ordinances.

(7) Subject to the control of the Executive Council, the Finance Officer shall—

(a) hold and manage the property and investments of the University including trust and endowed property;

(b) ensure that the limits fixed by the Executive Council for recurring and non-recurring expenditure for a year are not exceeded and that all moneys are expended on the purpose for which they are granted or allotted;

(c) be responsible for the preparation of annual accounts and the budget of the University and for their presentation to the Executive Council;

(d) keep a constant watch on the state of the cash and bank balances and on the state of investments;

(e) watch the progress of the collection of revenue and advise on the methods of collection employed;

(f) ensure that the registers of buildings, land, furniture and equipment are maintained up-to-date and that stock-checking is conducted, of equipment and other consumable materials in all offices, Departments, Centres and Specialised Laboratories;

(g) bring to the notice of the Vice-Chancellor unauthorised expenditure and other financial irregularities and suggest disciplinary action against persons at fault; and

(h) call for from any office, Department, Centre, Laboratory, College or Institution maintained by the University any information or returns that he may consider necessary for the performance of his duties.

(8) Any receipt given by the Finance Officer or the person or persons duly authorised in this behalf by the Executive Council for any money payable to the University shall be sufficient discharge for payment of such money.

Controller of Examinations.

8. (1) The Controller of Examinations shall be appointed by the Executive Council on the recommendations of a Selection Committee constituted for the purpose and he shall be a whole-time salaried officer of the University.



(2) The Controller of Examinations shall be appointed for a term of five years and shall be eligible for re-appointment.

(3) The emoluments and other terms and conditions of service of the Controller of Examinations shall be such as may be prescribed by the Executive Council from time to time:

Provided that the Controller of Examinations shall retire on attaining the age of sixty-two years.

(4) When the office of the Controller of Examinations is vacant or when the Controller of Examinations is, by reason of illness, absence or any other cause, unable to perform the duties of his office, the duties of the office shall be performed by such person as the Vice-Chancellor may appoint for the purpose.

(5) The Controller of Examinations shall arrange for and superintend the examinations of the University in the manner prescribed by the Ordinances.

9. (1) The Librarian shall be appointed by the Executive Council on the recommendations of the Selection Committee constituted for the purpose and he shall be a whole-time salaried officer of the University.

Librarian.

(2) The Librarian shall exercise such powers and perform such duties as may be assigned to him by the Executive Council.

10. (1) An annual meeting of the Court shall be held on a date to be fixed by the Executive Council unless some other date has been fixed by the Court in respect of any year.

Meetings of Court.

(2) At an annual meeting of the Court, a report on the working of the University during the previous year, together with a statement of the receipts and expenditure, the balance-sheet as audited, and the financial estimates for the next year shall be presented.

(3) A copy of the statement of receipts and expenditure, the balance-sheet and the financial estimates referred to in clause (2) shall be sent to every member of the Court at least seven days before the date of the annual meeting.

(4) Special meetings of the Court may be convened by the Executive Council or the Vice-Chancellor or if there is no Vice-Chancellor, the Pro-Vice-Chancellor or if there is no Pro-Vice-Chancellor, by the Registrar.

(5) Eleven members of the Court shall form a quorum for a meeting of the Court.

11. Seven members of the Executive Council shall form a quorum for a meeting of the Executive Council.

Quorum for meeting of Executive Council.

12. (1) The Executive Council shall have the power of management and administration of the revenues and property of the University and the conduct of all administrative affairs of the University not otherwise provided for.

Powers and functions of Executive Council.

(2) Subject to the provisions of this Act, the Statutes and the Ordinances, the Executive Council shall, in addition to all other powers vested in it, have the following powers, namely:—

(i) to create teaching and other academic posts including Chairs, to determine the number and emoluments of such posts and to define the duties and conditions of service of Professors, Associate Professors, Assistant Professors and other academic staff:

Provided that no action shall be taken by the Executive Council in respect of the number and qualifications of teachers and other academic staff otherwise than after consideration of the recommendations of the Academic Council;

(ii) to appoint such Professors, Associate Professors, Assistant Professors and other academic staff including Chairs, as may be necessary, on the recommendation of



the Selection Committee constituted for the purpose and to fill up temporary vacancies therein;

(iii) to promote inter-facial research by making joint appointments of teaching staff in different Schools, Departments and Centres;

(iv) to create administrative, ministerial and other necessary posts and to define their duties and conditions of their service and to make appointments thereto in the manner prescribed by the Ordinances;

(v) to grant leave of absence to any officer of the University other than the Chancellor and the Vice-Chancellor, and to make necessary arrangements for the discharge of the functions of such officer during his absence;

(vi) to regulate and enforce discipline among employees in accordance with the Statutes and the Ordinances;

(vii) to manage and regulate the finances, accounts, investments, property, business and all other administrative affairs of the University and for that purpose to appoint such agents as it may think fit;

(viii) to fix limits on the total recurring and the total non-recurring expenditure for a year on the recommendation of the Finance Committee;

(ix) to invest any money belonging to the University, including any unapplied income, in such stocks, funds, share or securities, from time to time, as it may think fit or in the purchase of immovable property in India, with the like powers of varying such investment from time to time;

(x) to transfer or accept transfers of any movable or immovable property on behalf of the University;

(xi) to provide buildings, premises, furniture and apparatus and other means needed for carrying on the work of the University;

(xii) to enter into, vary, carry out and cancel contracts on behalf of the University;

(xiii) to entertain, adjudicate upon, and if thought fit, to redress any grievances of the employees and students of the University who may, for any reason, feel aggrieved;

(xiv) to appoint examiners and moderators and, if necessary, to remove them, and to fix their fees, emoluments and travelling and other allowances, after consulting the Academic Council;

(xv) to select a common seal for the University and provide for the use of such seal;

(xvi) to make such special arrangements as may be necessary for the residence of women students;

(xvii) to institute fellowships, scholarships, studentships, medals and prizes;

(xviii) to provide for the appointment of Visiting Professors, Emeritus Professors, Consultants and Scholars and determine the terms and conditions of such appointments;

(xix) to enter into partnership with industry and non-governmental agencies for the advancement of knowledge and establish a corpus of funds out of the profits of such partnership; and



(xx) to exercise such other powers and perform such other duties as may be conferred or imposed on it by this Act or the Statutes.

13. Nine members of the Academic Council shall form a quorum for a meeting of the Academic Council.

Quorum of meeting of Academic Council.

14. Subject to the provisions of this Act, the Statutes and the Ordinances, the Academic Council shall, in addition to all other powers vested in it, have the following powers, namely:—

Powers and functions of Academic Council.

(a) to exercise general supervision over the academic policies of the University and to give directions regarding methods of instruction, co-ordination of teaching among the Colleges and the Institutions, evaluation of research and improvement of academic standards;

(b) to bring about and promote inter-School co-ordination and to establish or appoint such committees or boards as may be deemed necessary for the purpose;

(c) to consider matters of general academic interest either on its own initiative, or on a reference by a School or the Executive Council, and to take appropriate action thereon; and

(d) to frame such Regulations and rules consistent with the Statutes and the Ordinances regarding the academic functioning of the University, discipline, residence, admissions, award of fellowships and studentships, fees, concessions, corporate life and attendance.

15. (1) The University shall have such Schools of Studies as may be specified in the Statutes.

Schools of Studies and Departments.

(2) Every School shall have a School Board and the members of the first School Board shall be nominated by the Executive Council for a period of three years.

(3) The composition, powers and functions of a School Board shall be prescribed by the Ordinances.

(4) The conduct of the meetings of a School Board and the quorum required for such meetings shall be prescribed by the Ordinances.

(5) (a) Every School shall consist of such Departments as may be assigned to it by the Ordinances:

Provided that the Executive Council may, on the recommendation of the Academic Council, establish Centres of Studies to which may be assigned such teachers of the University as the Executive Council may consider necessary.

(b) Each Department shall consist of the following members, namely:—

(i) teachers of the Department;

(ii) persons conducting research in the Department;

(iii) Dean of the School;

(iv) Honorary Professors, if any, attached to the Department; and

(v) such other persons as may be members of the Department in accordance with the provisions of the Ordinances.

16. (1) Each Department shall have a Board of Studies.

Board of Studies



(2) The constitution of the Board of Studies and the term of office of its members shall be prescribed by the Ordinances.

(3) Subject to the overall control and supervision of the Academic Council, the functions of a Board of Studies shall be to approve subjects for research for various degrees and other requirements of research degrees and to recommend to the concerned School Board in the manner prescribed by the Ordinances—

(a) courses of studies and appointment of examiners for courses, but excluding research degrees;

(b) appointment of supervisors for research; and

(c) measures for the improvement of the standard of teaching and research:

Provided that the above functions of a Board of Studies shall, during the period of three years immediately after the commencement of this Act, be performed by the Department.

Finance
Committee.

17. (1) The Finance Committee shall consist of the following members, namely:—

(i) the Vice-Chancellor;

(ii) the Pro-Vice-Chancellor;

(iii) one person to be nominated by the Court;

(iv) three persons to be nominated by the Executive Council, out of whom at least one shall be a member of the Executive Council; and

(v) three persons to be nominated by the Visitor.

(2) Five members of the Finance Committee shall form a quorum for a meeting of the Finance Committee.

(3) All the members of the Finance Committee, other than *ex officio* members, shall hold office for a term of three years.

(4) A member of the Finance Committee shall have the right to record a minute of dissent if he does not agree with any decision of the Finance Committee.

(5) The Finance Committee shall meet at least thrice every year to examine the accounts and to scrutinise proposals for expenditure.

(6) All proposals relating to creation of posts, and those items which have not been included in the Budget, shall be examined by the Finance Committee before they are considered by the Executive Council.

(7) The annual accounts and the financial estimates of the University prepared by the Finance Officer shall be laid before the Finance Committee for consideration and comments and thereafter submitted to the Executive Council for approval.

(8) The Finance Committee shall recommend limits for the total recurring expenditure and the total non-recurring expenditure for the year, based on the income and resources of the University (which, in the case of productive works, may include the proceeds of loans).

Selection
Committees.

18. (1) There shall be Selection Committees for making recommendations to the Executive Council for appointment to the posts of Professor, Associate Professor, Assistant Professor, Registrar, Finance Officer, Controller of Examinations, Librarian and Principals of Colleges and Institutions maintained by the University.



(2) The Selection Committee for appointment to the posts specified in Column 1 of the Table below shall consist of the Vice-Chancellor, a nominee of the Visitor and the persons specified in the corresponding entry in Column 2 of the said Table:

TABLE

1	2
Professor	<p>(i) The Dean of the School.</p> <p>(ii) The Head of the Department, if he is a Professor.</p> <p>(iii) Three persons not in the service of the University, nominated by the Executive Council, out of a panel of names recommended by the Academic Council for their special knowledge of, or interest in, the subject with which the Professor will be concerned.</p>
Associate Professor/ Assistant Professor	<p>(i) The Head of the Department.</p> <p>(ii) One Professor nominated by the Vice-Chancellor.</p> <p>(iii) Two persons not in the service of the University, nominated by the Executive Council, out of a panel of names recommended by the Academic Council for their special knowledge of, or interest in, the subject with which the Associate Professor or Assistant Professor will be concerned.</p>
Registrar/Finance Officer/ Controller of Examinations	<p>(i) Two members of the Executive Council nominated by it.</p> <p>(ii) One person not in the service of the University nominated by the Executive Council.</p>
Librarian	<p>(i) Two persons not in the service of the University who have special knowledge of the subject of the Library Science or Library Administration nominated by the Executive Council.</p> <p>(ii) One person not in the service of the University nominated by the Executive Council.</p>
Principal of College or Institution maintained by the University	Three persons not in the service of the University of whom two shall be nominated by the Executive Council and one by the Academic Council for their special knowledge of, or interest in, a subject in which instruction is being provided by the College or Institution.

Note 1. — Where the appointment is being made for an inter-disciplinary project, the head of the project shall be deemed to be the Head of the Department concerned.

Note 2.— The Professor to be nominated by the Vice-Chancellor shall be a Professor concerned with the speciality for which the selection is being made and the Vice-Chancellor shall consult the Head of the Department and the Dean of School before nominating the Professor.

(3) The Vice-Chancellor, or in his absence the Pro-Vice-Chancellor, shall convene and preside at the meeting of the Selection Committee:



Provided that the meeting of the Selection Committee shall be fixed after prior consultation with, and subject to the convenience of Visitor's nominee and the experts nominated by the Executive Council:

Provided further that the proceedings of the Selection Committee shall not be valid unless,—

(a) where the number of Visitor's nominee and the persons nominated by the Executive Council is four in all, at least three of them attend the meeting, and

(b) where the number of Visitor's nominee and the persons nominated by the Executive Council is three in all, at least two of them attend the meeting.

(4) The procedure to be followed by the Selection Committee shall be laid down in the Ordinances.

(5) If the Executive Council is unable to accept the recommendations made by the Selection Committee, it shall record its reasons and submit the case to the Visitor for final orders.

(6) Appointments to temporary posts shall be made in the manner indicated below:—

(i) If the temporary vacancy is for duration longer than one academic session, it shall be filled on the advice of the Selection Committee in accordance with the procedure indicated in the foregoing clauses:

Provided that if the Vice-Chancellor is satisfied that in the interests of work it is necessary to fill the vacancy, the appointment may be made on a purely temporary basis on the advice of a local Selection Committee referred to in sub-clause (ii) for a period not exceeding six months.

(ii) If the temporary vacancy is for a period less than a year, an appointment to such vacancy shall be made on the recommendation of a local Selection Committee consisting of the Dean of the School concerned, the Head of the Department and a nominee of the Vice-Chancellor:

Provided that if the same person holds the offices of the Dean and the Head of the Department, the Selection Committee may contain two nominees of the Vice-Chancellor:

Provided further that in the case of sudden casual vacancies of teaching posts caused by death or any other reason, the Dean may, in consultation with the Head of the Department concerned, make a temporary appointment for a month and report to the Vice-Chancellor and the Registrar about such appointment.

(iii) No teacher appointed temporarily shall, if he is not recommended by a regular Selection Committee for appointment under the Statutes, be continued in service on such temporary employment, unless he is subsequently selected by a local Selection Committee or a regular Selection Committee, for a temporary or permanent appointment, as the case may be.

Special mode of appointment.

19. (J) Notwithstanding anything contained in Statute 18, the Executive Council may invite a person of high academic distinction and professional attainments to accept a post of Professor or Associate Professor or any other equivalent academic post in the University on such terms and conditions as it deems fit and on the person agreeing to do so appoint him to the post:

Provided that the Executive Council may also create supernumerary posts for a specified period for appointment of such persons:

Provided further that the number of supernumerary posts so created should not exceed five per cent. of the total posts in the University.



(2) The Executive Council may appoint a teacher or any other academic staff working in any other University or organisation for undertaking a joint project in accordance with the manner laid down in the Ordinances.

20. The Executive Council may appoint a person selected in accordance with the procedure laid down in Statute 18 for a fixed tenure on such terms and conditions as it deems fit.

Appointment for fixed tenure.

21. (1) An authority of the University may appoint as many standing or special Committees as it may deem fit, and may appoint to such Committees persons who are not members of such authority.

Committees.

(2) A Committee appointed under clause (1) may deal with any subject delegated to it subject to subsequent confirmation by the authority appointing it.

22. (1) All the teachers and other academic staff of the University shall, in the absence of any agreement to the contrary, be governed by the terms and conditions of service and code of conduct as are specified in the Statutes, the Ordinances and the Regulations.

Terms and conditions of service and code of conduct of teachers, etc.

(2) The emoluments of members of the academic staff shall be such as may be prescribed by the Ordinances.

(3) Every teacher and member of the academic staff of the University shall be appointed on a written contract, the form of which shall be prescribed by the Ordinances.

(4) A copy of every contract referred to in clause (3) shall be deposited with the Registrar.

23. (1) All the employees of the University, other than the teachers and other academic staff shall, in the absence of any contract to the contrary, be governed by the terms and conditions of service and code of conduct as are specified in the Statutes, the Ordinances and the Regulations.

Terms and conditions of service and code of conduct of other employees.

(2) The manner of appointment and emoluments of employees, other than the teachers and other academic staff, shall be such as may be prescribed by the Ordinances.

24. (1) Whenever, in accordance with the Statutes, any person is to hold an office or be a member of an authority of the University by rotation according to seniority, such seniority shall be determined according to the length of continuous service of such person in his grade and in accordance with such other principles as the Executive Council may, from time to time, prescribe.

Seniority list.

(2) It shall be the duty of the Registrar to prepare and maintain in respect of each class of persons to whom the provisions of these Statutes apply, a complete and up-to-date seniority list in accordance with the provisions of clause (1).

(3) If two or more persons have equal length of continuous service in a particular grade or the relative seniority of any person or persons is otherwise in doubt, the Registrar may, on his own motion and shall, at the request of any such person, submit the matter to the Executive Council whose decision thereon shall be final.

25. (1) Where there is an allegation of misconduct against a teacher, a member of the academic staff or other employee of the University, the Vice-Chancellor, in the case of the teacher or a member of the academic staff, and the authority competent to appoint (hereinafter referred to as the appointing authority) in the case of other employee may, by order in writing, place such teacher, member of the academic staff or other employee, as the case may be, under suspension and shall forthwith report to the Executive Council the circumstances in which the order was made:

Removal of employees of University.

Provided that the Executive Council may, if it is of the opinion, that the circumstances of the case do not warrant the suspension of the teacher or a member of the academic staff, revoke such order.



(2) Notwithstanding anything contained in the terms of the contract of appointment or of any other terms and conditions of service of the employees, the Executive Council in respect of teachers and other academic staff, and the appointing authority in respect of other employees, shall have the power to remove a teacher or a member of the academic staff or other employee, as the case may be, on grounds of misconduct.

(3) Save as aforesaid, the Executive Council, or as the case may be, the appointing authority, shall not be entitled to remove any teacher, member of the academic staff or other employee except for a good cause and after giving three months' notice or on payment of three months' salary in lieu thereof.

(4) No teacher, member of the academic staff or other employee shall be removed under clause (2) or clause (3) unless he has been given a reasonable opportunity of showing cause against the action proposed to be taken in regard to him.

(5) The removal of a teacher, member of the academic staff or other employee shall take effect from the date on which the order of removal is made:

Provided that where the teacher, member of the academic staff or other employee is under suspension at the time of his removal, such removal shall take effect from the date on which he was placed under suspension.

(6) Notwithstanding anything contained in the foregoing provisions of this Statute, a teacher, member of the academic staff or other employee may resign—

(a) if he is a permanent employee, only after giving three months' notice in writing to the Executive Council or the appointing authority, as the case may be, or by paying three months' salary in lieu thereof;

(b) if he is not a permanent employee, only after giving one month's notice in writing to the Executive Council or, as the case may be, the appointing authority or by paying one month's salary in lieu thereof:

Provided that such resignation shall take effect only on the date on which the resignation is accepted by the Executive Council or the appointing authority, as the case may be.

Honorary
degrees.

26. (1) The Executive Council may, on the recommendation of the Academic Council and by a resolution passed by a majority of not less than two-thirds of the members present and voting, make proposals to the Visitor for the conferment of honorary degrees:

Provided that in case of emergency, the Executive Council may, on its own motion, make such proposals.

(2) The Executive Council may, by a resolution passed by a majority of not less than two-thirds of the members present and voting, withdraw, with the previous sanction of the Visitor, any honorary degree conferred by the University.

Withdrawal of
degrees, etc.

27. The Executive Council may, by a resolution passed by a majority of not less than two-thirds of the members present and voting, withdraw a degree or academic distinction conferred on, or any certificate or diploma granted to, any person by the University for good and sufficient cause:

Provided that no such resolution shall be passed until a notice in writing has been given to that person calling upon him to show cause within such time as may be specified in the notice as to why such a resolution should not be passed and until his objections, if any, and any evidence he may produce in support of them, have been considered by the Executive Council.

Maintenance
of discipline
amongst
students of
University.

28. (1) All powers relating to the maintenance of discipline and disciplinary action in relation to the students of the University shall vest in the Vice-Chancellor.

(2) There shall be a Proctor of the University to assist the Vice-Chancellor in the exercise of the powers referred to in clause (1), who shall be appointed by the Executive



Council from amongst the Professors and Associate Professors in the manner prescribed by the Ordinances.

(3) The Vice-Chancellor may delegate all or any of the powers referred to in clause (1), as he deems proper, to the Proctor and to such other officers as he may specify in this behalf.

(4) Without prejudice to the generality of his powers relating to the maintenance of discipline and taking such action, as may seem to him appropriate for the maintenance of discipline, the Vice-Chancellor may, in exercise of such powers, by order, direct that any student or students be expelled or rusticated, for a specified period, or be not admitted to a course or courses of study in a College, Institution or Department or a School of the University for a stated period, or be punished with fine for an amount to be specified in the order, or be debarred from taking an examination or examinations conducted by the University, College, Institution or Department or a School for one or more years, or that the results of the student or students concerned in the examination or examinations in which he or they have appeared be withheld or cancelled.

(5) The Principals of Colleges, Institutions, Deans of Schools of Studies and Heads of teaching Departments in the University shall have the authority to exercise all such disciplinary powers over the students in their respective Colleges, Institutions, Schools and teaching Departments in the University, as may be necessary for the proper conduct of such Colleges, Institutions, Schools and teaching Departments.

(6) Without prejudice to the powers of the Vice-Chancellor and the Principals and other persons specified in clause (5), detailed rules of discipline and proper conduct shall be made by the University and the Principals of Colleges, Institutions, Deans of Schools of Studies and Heads of teaching Departments in the University may also make such supplementary rules as they deem necessary for the purposes stated therein.

(7) At the time of admission, every student shall be required to sign a declaration to the effect that he submits himself to the disciplinary jurisdiction of the Vice-Chancellor and other authorities of the University.

29. Convocations of the University for the conferring of degrees or for other purposes shall be held in such manner as may be prescribed by the Ordinances. Convocations.

30. Where no provision is made for a President or Chairman to preside over a meeting of any authority of the University or any Committee of such authority or when the President or Chairman so provided for is absent, the members present shall elect one from among themselves to preside at such meeting. Acting Chairman of meetings.

31. Any member, other than an *ex officio* member of the Court, the Executive Council, the Academic Council or any other authority of the University or any Committee of such authority may resign by letter addressed to the Registrar and the resignation shall take effect as soon as such letter is received by the Registrar. Resignation.

32. (1) A person shall be disqualified for being chosen as, and for being, a member of any of the authorities, or for being appointed as, and for being, an officer, of the University if— Disqualification.

(i) he is of unsound mind; or

(ii) he is an undischarged insolvent; or

(iii) he has been convicted by a court of law of an offence involving moral turpitude and sentenced in respect thereof to imprisonment for not less than six months.

(2) If any question arises as to whether a person is or had been subjected to any of the disqualifications mentioned in clause (1), the question shall be referred to the Visitor and his decision shall be final and no suit or other proceeding shall lie in any civil court against such decision.



Residence
condition for
membership
and office

33. Notwithstanding anything contained in the Statutes, a person who is not ordinarily resident in India shall not be eligible to be an officer of the University or a member of any authority of the University.

Membership of
authorities by
virtue of
membership of
other bodies.

34. Notwithstanding anything contained in the Statutes, a person who holds any post in the University or is a member of any authority or body of the University in his capacity as a member of a particular authority or body or as the holder of a particular appointment shall hold such office or membership only for so long as he continues to be a member of that particular authority or body or the holder of that particular appointment, as the case may be.

Alumni
Association.

35. (1) There shall be an Alumni Association for the University.

(2) The subscription for membership of the Alumni Association shall be prescribed by the Ordinances.

(3) No member of the Alumni Association shall be entitled to vote or stand for election unless he has been a member of the Association for at least one year prior to the date of election and is a degree holder of the University of at least five years standing:

Provided that the condition relating to the completion of one year's membership shall not apply in the case of the first election.

Students
Council.

36. (1) There shall be constituted in the University, a Students' Council for every academic year, consisting of—

(i) the Dean of Students' Welfare who shall be the Chairman of the Students' Council;

(ii) twenty students to be nominated by the Academic Council on the basis of merit in studies, sports and extra-curricular activities; and

(iii) twenty students to be elected by the students as their representatives:

Provided that any student of the University shall have the right to bring up any matter concerning the University before the Students' Council, if so permitted by the Chairman, and he shall have the right to participate in the discussions at any meeting when the matter is taken up for consideration.

(2) The functions of the Students' Council shall be to make suggestions to the appropriate authorities of the University in regard to the programmes of studies, students' welfare and other matters of importance, in regard to the working of the University in general and such suggestions shall be made on the basis of consensus of opinion.

(3) The Students' Council shall meet at least twice in every academic year and the first meeting of the Council be held in the beginning of the academic session.

Ordinances,
how to be
made.

37. (1) The first Ordinances made under sub-section (2) of section 28 may be amended, repealed or added to at any time by the Executive Council in the manner specified in the following sub-clauses.

(2) No Ordinances in respect of the matters enumerated in sub-section (1) of section 28 of this Act shall be made by the Executive Council unless a draft of such Ordinances has been proposed by the Academic Council.

(3) The Executive Council shall not have power to amend any draft of any Ordinances proposed by the Academic Council under clause (2), but may reject the proposal or return the draft to the Academic Council for re-consideration, either in whole or in part, together with any amendment which the Executive Council may suggest.

(4) Where the Executive Council has rejected or returned the draft of an Ordinances proposed by the Academic Council, the Academic Council may consider the question afresh and in case the original draft is reaffirmed by a majority of not less than two-thirds of the members present and voting and more than half the total number of members of the Academic



Council, the draft may be sent back to the Executive Council which shall either adopt it or refer it to the Visitor whose decision shall be final.

(5) Every Ordinances made by the Executive Council shall come into effect immediately.

(6) Every Ordinances made by the Executive Council shall be submitted to the Visitor within two weeks from the date of its adoption.

(7) The Visitor shall have the power to direct the University to suspend the operation of any Ordinances.

(8) The Visitor shall inform the Executive Council about his objection to the Ordinances referred to in clause (7) and may, after receiving the comments of the University, either withdraw the order suspending the Ordinances or disallow the Ordinances, and his decision shall be final.

38. (1) The authorities of the University may make Regulations consistent with this Act, the Statutes and the Ordinances for the following matters, namely:— Regulations.

(i) laying down the procedure to be observed at their meetings and the number of members required to form a quorum;

(ii) providing for all matters which are required by this Act, the Statutes or the Ordinances to be prescribed by Regulations; and

(iii) providing for all other matters solely concerning such authorities or committees appointed by them and not provided for by this Act, the Statutes or the Ordinances.

(2) Every authority of the University shall make Regulations providing for the giving of notice to the members of such authority of the dates of meeting and of the business to be considered at meetings and for the keeping of a record of the proceedings of meetings.

(3) The Executive Council may direct the amendment in such manner as it may specify of any Regulation made under the Statutes or the annulment of any such Regulation.

39. Subject to the provisions of this Act and the Statutes, any officer or authority of the University may delegate his or its powers to any other officer or authority or person under his or its respective control and subject to the condition that overall responsibility for the exercise of the powers so delegated shall continue to vest in the officer or authority delegating such powers. Delegation of Powers.

V. K. BHASIN,
Additional Secretary to the Govt. of India.

Annexure-I (B) : Central Universities (Amendment) Act-2014

रजिस्ट्री सं० हो० एस्—(एन)०४/०००७/२००३—१४ REGISTERED NO. DL—(N)०४/०००७/२००३—१४



असाधारण
EXTRAORDINARY
भाग II — खण्ड 1
PART II — Section 1
प्रधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० ४१] नई दिल्ली, बुधवार, दिसम्बर १८, २०१४/ अग्रहायण २७, १९३६ (शक)
No. 41] NEW DELHI, THURSDAY, DECEMBER 18, 2014/AGRAHAYANA 27, 1936 (SAKA)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
Separate paging is given to this Part in order that it may be filed as a separate compilation.

MINISTRY OF LAW AND JUSTICE
(Legislative Department)

New Delhi, the 18th December, 2014/Agrahayana 27, 1936 (Saka)

The following Act of Parliament received the assent of the President on the 17th December, 2014, and is hereby published for general information:—

THE CENTRAL UNIVERSITIES (AMENDMENT) ACT, 2014

No. 35 OF 2014

[17th December, 2014.]

An Act further to amend the Central Universities Act, 2009.

BE it enacted by Parliament in the Sixty-fifth Year of the Republic of India as follows:—

1. (1) This Act may be called the Central Universities (Amendment) Act, 2014, Short title and commencement.
(2) It shall come into force on such date as the Central Government may, by notification in the Official Gazette, appoint.

25 of 2009

2. After section 3A of the Central Universities Act, 2009 (hereinafter referred to as the Principal Act), the following section shall be inserted, namely:—

Insertion of new section 3B.

"3B. (1) The Central University of Bihar established under sub-section (4) of section 3 shall be known as the Central University of South Bihar, having its territorial

Special provision with respect to State of Bihar.



THE GAZETTE OF INDIA EXTRAORDINARY

[PART II—SEC. 1]

jurisdiction extending to the territory in the south of River Ganges in the State of Bihar, as specified in the First Schedule to this Act.

(2) There shall be established a University, which shall be a body corporate, to be known as the Mahatma Gandhi Central University, having its territorial jurisdiction extending to the territory in the north of the River Ganges in the State of Bihar, as specified in the First Schedule to this Act.”

Amendment
of First
Schedule.

4. In the First Schedule to the principal Act, for serial number 1 and the entries relating thereto, the following serial numbers and entries shall be substituted, namely:—

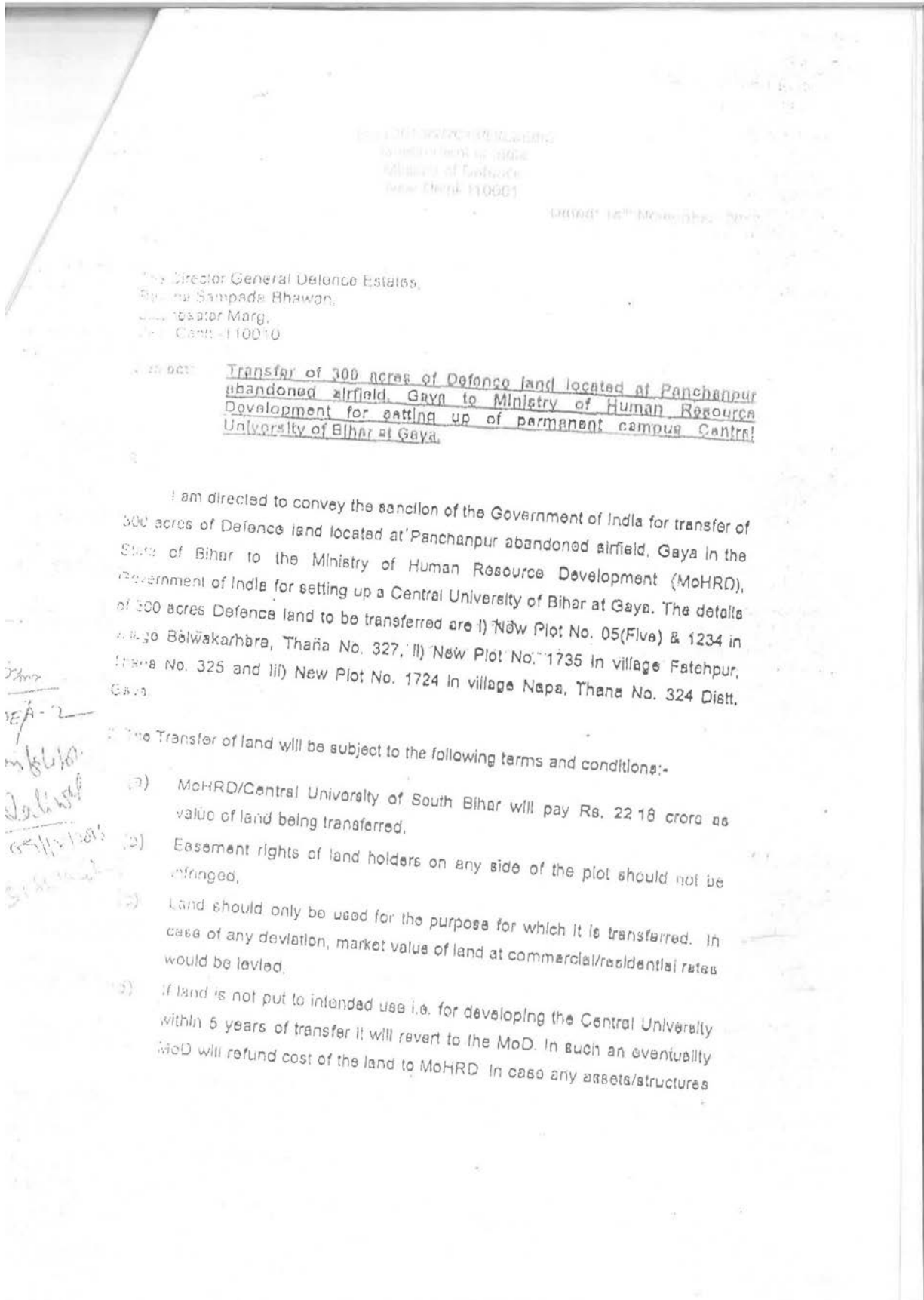
Serial No.	Name of the State	Name of the University	Territorial Jurisdiction
1.	Bihar	Central University of South Bihar	Territory in the South of the River Ganges in the State of Bihar
1A.	Bihar	Mahatma Gandhi Central University	Territory in the north of the River Ganges in the State of Bihar

DR. SANJAY SINGH,

Secretary to the Govt. of India.

PRINTED BY THE GENERAL MANAGER, GOVERNMENT OF INDIA PRESS, MINTO ROAD, NEW DELHI
AND PUBLISHED BY THE CONTROLLER OF PUBLICATIONS, DELHI—2014.

GMGIPMRND—3829G(S3)—19.12.2014.



भारत सरकार के आदेश
संख्या: 100/100/2015
विभाग: मानव संसाधन विकास
नया दिल्ली-110001

श्री. डायरेक्टर जनरल डेफेंस एस्टेट्स,
समृद्धि संपदा भवन,
संसाधन मार्ग,
नया दिल्ली-110010

Subject: Transfer of 300 acres of Defence land located at Panchanpur abandoned airfield, Gaya to Ministry of Human Resource Development for setting up of permanent campus Central University of Bihar at Gaya.

I am directed to convey the sanction of the Government of India for transfer of 300 acres of Defence land located at Panchanpur abandoned airfield, Gaya in the State of Bihar to the Ministry of Human Resource Development (MoHRD), Government of India for setting up a Central University of Bihar at Gaya. The details of 300 acres Defence land to be transferred are i) New Plot No. 05(Flva) & 1234 in village Bālwakarhara, Thana No. 327, ii) New Plot No. 1735 in village Fatehpur, Thana No. 325 and iii) New Plot No. 1724 in village Napa, Thana No. 324 Distt. Gaya.

Handwritten notes:
श्री. डायरेक्टर
संसाधन विकास
नया दिल्ली-110001
संसाधन

The Transfer of land will be subject to the following terms and conditions:-

- (1) MoHRD/Central University of South Bihar will pay Rs. 22.18 crore as value of land being transferred.
- (2) Easement rights of land holders on any side of the plot should not be infringed.
- (3) Land should only be used for the purpose for which it is transferred. In case of any deviation, market value of land at commercial/residential rates would be levied.
- (4) If land is not put to intended use i.e. for developing the Central University within 5 years of transfer it will revert to the MoD. In such an eventuality MoD will refund cost of the land to MoHRD. In case any assets/structures



- not created by MCHRD/ Central Univ. MCHRD would be liable to recover the
costs of their own staff within the stipulated time period to the satisfaction of
MCHRD.
2. MCHRD/ Central University of Bihar will allow access to land for
inspection of premises as and when required.
3. Suitable amendment be made to MLR/MLR Plan and Raksha Bhoomi by the
DEO, Danapur on the basis of this section.
4. This issue with the concurrence of Ministry of Defence (Finance) vide their
U.O No 1115/F/W-1/13 dated 14.11.2013.

Yours faithfully,


(Nitin Chayanda)
Director (L&C)

Copy to

1. Min. Of Defence (Fin/W-1) Kashmir House, New Delhi
2. CGDA Ulaanbaatar Marg, Delhi Cantt.
3. DG ADS, L-II Block, Brassey Avenue, New Delhi-11
4. DADS, Central Command, Lucknow
5. PCDA, Central Command
6. PDDE, Central Command
7. CEO, Danapur Circle, Danapur
8. CDA, Danapur
9. QMG's Branch / LW (Central)
10. ADG (LWE)
11. D (Lands)
12. MCHRD/ Central University

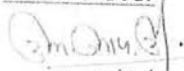


HANDING/TAKING OVER CERTIFICATE

On consequent of deposition of Rs.22.18 crore with, DEO JOB circle, Danapur Cantt on 06.02.2014 by Central University of Bihar Patna, we the undersigned have today 07 the day of February'2014 (F/N) Handed/Taken over the physical possession of 300 acres of Defence land out of Panchanpur Abandoned Air Field measuring 1100.59 acres to the Central University of Bihar, on the terms and conditions stipulated in the sanction accorded by the Government of India, Ministry of Defence vide letter no. 13019/1/2013/D(Lands), dated 14-11-2013 (site plan attached).

Authority :- Govt. of India, Ministry of Defence letter No. 13019/1/2013/D(Lands) dated 14-11-2013.

Handed over


07/02/14

Rep of DEO

JOB Circle

Bihar

Danapur

(S. D. O.)

SDO

Taken over


07/02/14

Rep of Central University of Bihar

Gaya


(Prof. Janak Pandey)
Vice-Chancellor
Central University of Bihar



Annexure-II (A) : NCTE Notification

परीक्षा नियंत्रक कार्यालय
आयसी सं. 353
दिनांक 01/05/15

TO BE PUBLISHED IN GAZETTE OF INDIA PART - III, SECTION 4

National Council for Teacher Education
Eastern Regional Committee
(A Statutory Body of the Govt. of India)
15, Neelakantha Nagar, Nayapalli, Bhubaneswar - 751012
Phone-(0674) 2562793, 2563252, 2563156, Fax: (0674) 2564873

कुलपति कार्यालय
आयसी सं. 526
दिनांक 01.05.2015

F. No. ER-185.6.13/2015/31325
(File No. ERC/NCTE/4 Yr. Inte. B.A. B.Ed. and B.Sc. B.Ed./CUB/2014)

Date: 22/04/2015

ORDER

WHEREAS, in terms of Section 14(1) of the NCTE Act, Central University of Bihar, House No. 16/13, Ward No. 9A, New Area Bisar, Nootan Nagar, Gaya-823001, Bihar has applied for grant of recognition for 4 year Integrated B.A. B.Ed. and B.Sc. B.Ed. course for Four years duration under section 14(1) of the NCTE Act, 1993 and hardcopy received by Eastern Regional Committee of NCTE on 11.02.2014.

AND WHEREAS, on scrutiny of the application submitted by the institution, the documents attached therewith, the affidavit submitted and the report received from VT and videography, and the certificates received from the University, the Committee is satisfied that the applicant fulfils the requirements under the provisions of NCTE Act, Rules and relevant Regulations including the Norms and Standards for the said teacher education programme such as instructional facilities, infrastructural facilities, financial resources, etc., for running the programme.

NOW THEREFORE, in exercise of the powers vested under Section 14(3) (a) of the NCTE Act, 1993, the Eastern Regional Committee, NCTE hereby grants recognition to Central University of Bihar, House No. 16/13, Ward No. 9A, New Area Bisar, Nootan Nagar, Gaya-823001, Bihar for conducting 4 year Integrated B.A. B.Ed. and B.Sc. B.Ed. programme of Four years duration with an intake 100 (two basic units) from the academic sessions 2015-2016 under Clause 7(16) of NCTE (Recognition Norms & Procedure) Regulations, 2014 subject to fulfillment of the following conditions:-

- I. The institution shall comply with the various other norms and standards prescribed in the NCTE regulations, as amended from time to time.
 - II. The institution shall make admission only after it obtains affiliation from the examining body in terms of clause 8(10) of the NCTE (Recognition Norms & Procedure) Regulations 2014.
- III. The institution shall ensure that the required number of academic staff duly approved by affiliating body for conducting the course should always remain in position.

CoE
Hr
01/05/15

SO (Acad)

57/5/15

Sh. Judge
Principal
NCTE

(Signature)

Contd...2



1/21

- IV. The institution shall comply with the additional facilities required (additional built-up area, additional staff, additional funds etc) for the second unit as prescribed in NCTE (Recognition Norms and Procedure) Regulations 2014 before 31.10.2015.
2. Further the recognition is subject to the condition that the institution shall move gradually to become a composite institution but not later than 2016-2017.
3. Further, the recognition is subject to fulfillment of all such other requirements as may be prescribed by other regulatory bodies like UGC, affiliating University / Body, the State Government etc, as applicable.
4. The institution shall submit to the Regional Committee a Self-Appraisal Report at the end of each academic year along with the statement of annual accounts duly audited by a Chartered Accountant.
5. The institution shall maintain its Website with hyperlink to the Council and the Eastern Regional Committee, covering, inter-alia, the details of the institution, its location, name of the programme applied for the intake; availability of physical infrastructure, such as land, building, office, classrooms and other facilities or amenities; instructional facilities, such as laboratory and library and the particulars of their proposed teaching faculty and non-teaching staff with photographs, for information of all concerned. The information with regard to the following shall also be made available on the website namely:-
 - a) Sanctioned programmes along with annual intake in the institution;
 - b) Name of faculty and staff in full as mentioned in school certificate along with their qualifications, scale of pay and photograph.
 - c) Name of faculty members who left or joined during the last, quarter;
 - d) Names of Students admitted during the current session along with qualification, Percentage of marks in the qualifying examination and in the entrance test, if any, date of admission, etc.;
 - e) Fee charged from students;
 - f) Available infrastructural facilities;
 - g) Facilities added during the last quarter;
 - h) Number of books in the library, journals subscribed to and additions, if any, in the last quarter;
 - i) The affidavit with enclosure submitted along with application.
 - j) The institution shall be free to post additional relevant information. If it so desires.
 - k) Any false or incomplete information on website shall render the institution liable for withdrawal of recognition.

Contd...3

C. K. Singh



1/3/1

6. The institution shall adhere to the mandatory disclosure in the prescribed format and display up-to-date information on its official website.
7. The institution shall make available list of students admitted on its official website.
8. If the institution contravenes any of the above conditions or the provision of the NCTE Act, Rules, Regulations and orders made or issued there under, the institution will render itself vulnerable to adverse action including withdrawal of recognition by the regional committee under the provisions of Section 17(1) of the NCTE Act.

By Order,

/

Regional Director

The Manager
Government of India Press
Department of Publications (Gazette Section)
Civil Lines, New Delhi - 110054

To

The Principal
Central University of Bihar,
House No. 16/13, Ward No. 9A,
New Area Bisar, Nootan Nagar,
Gaya-823001, Bihar

Copy to:

1. The Commissioner & Secretary, Primary, Secondary & Higher Education, Govt. of Bihar, New Secretariat, Vikas Bhawan, Patna, Bihar-800015.
2. The Registrar, Central University of Bihar, BIT Campus, Po- B.V. College, Patna, Bihar-800014.
3. The Director, Department of Secondary Education, Govt. of Bihar, New Secretariat, Vikas Bhawan, Patna, Bihar-800015.
4. The Secretary, Dept. of School Education and Literacy, Ministry of Human Resource Development, Govt. of India, Shastri Bhawan, New Delhi -110001.
5. The Under Secretary (CS) National Council for Teacher Education, Hans Bhawan, Wing-II, 1, Bahadurshah Zafar, New Delhi- 110002.
6. Office Order file/ Institution file.


Regional Director

Annexure-II (B): BCI

Website : www.barcouncilofindia.org



भारतीय विधिज्ञ परिषद् BAR COUNCIL OF INDIA

(Statutory Body Constituted under the Advocates Act, 1961)

21, Rouse Avenue Institutional Area, New Delhi - 110 002

BCI: D: 1491/2015 (LE)

Date: 30.07.2015

The Registrar
Central University of Bihar
House No. 16/13, Ward No. 9 A
38, New Area Bisar,
Gaya - 823 001
Bihar

Sub: Consent of recognition of your University and temporary approval of affiliation to School of Law, Central University, Gaya, Bihar for imparting five year BA LLB (Hons.) and five year B. Sc LLB (Hons.) law courses with an intake of one section with 60 students in each course for the academic year 2014-2015 and 2015-2016.

Sir,

The Legal Education Committee at its meeting held on 19th July, 2015 considered the inspection report. After consideration the Committee decided as follows: -

The Legal Education Committee considered the inspection report submitted by the inspection team. In view of the above, **School of Law, Central University, Gaya, Bihar** and further, Committee is of the view that as per Section 7 (1) (i) of the Advocates Act, 1961 University be granted recognition for the purpose of conferring the degree of law for imparting five year law courses and also granted fresh approval of affiliation to of **School of Law, Central University, Gaya, Bihar** for running five year BA LLB (Hons.) course and five year B.Sc. LLB (Hons.) course with an intake of one section of 60 students in each section in each course for a period of two years i.e. for the academic years 2014-2015 and 2015-2016.

The above recommendation is subject to approval by the Bar Council of India.

The detailed letter of approval of affiliation with conditions will be sent in due course.

This is for your information and necessary action.

Yours Sincerely,

(Ashok K Pandey)
Joint Secretary

Copy to:

1. The Dean,
School of Law, Central University of Bihar
House No. 16/13, Ward No. 9 A

कुलसचिव/Registrar
दक्षिण बिहार केन्द्रीय विश्वविद्यालय, पत्
Central University of South Bihar, Pat

Annexure-II (C) : AICTE



All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
Phone: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. Northern/2014/1-2191633831

Date: 10-Jun-2014

To,
The Principal Secretary,
Deptt. Of Human Resource Development,
Govt. of Bihar, New Secretariat,
Patna-800015, Bihar

Sub: Letter of Approval for New Institute / Conversion of Women's Institute to Co-Education Institute/ Change of Site of Institute
from academic year 2014-15

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and other notifications, as applicable and published from time to time, I am directed to convey the approval to

Regional Office	Northern	Application Id	1-2191633831
		Permanent Id	
Name of the Institute	CENTRAL UNIVERSITY OF BIHAR	Institute Address	CENTRAL UNIVERSITY OF BIHAR, BIT CAMPUS, PO:BV COLLEGE, PATNA - 800014, BIHAR, PATNA, PATNA, Bihar, 800014
Name of the Organisation	CENTRAL UNIVERSITY OF BIHAR	Organisation Address	BIT CAMPUS, PO:BV COLLEGE, PATNA -800014 BIHAR, PATNA, PATNA, Bihar, 800014
Institute Type	Central University		

Opted Women to Co-ed	No	Opted Change of Name	No	Opted Change of Site	No
Approved for Women to Co-ed	Not Applicable	Approved Change of Name	Not Applicable	Approved Change of Site	Not Applicable

to conduct following courses with the intake indicated below for the academic year 2014-2015

Application Number: 1-2191633831*

Page 1 of 5

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All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
Phone: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

Application Id : 1-2191633831									
S. No.	Programme	Shift	Level	Course	Full / Part Time	Affiliating Body	Intake approved for 14-15	PIO	NRI
1	ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE	FULL TIME	Central University of Bihar, Patna	18	NA	NA

Note : The approval is valid for two years from the date of issue of this letter for getting affiliation with respective University/ Board of Technical Education (BTE)/ Board of Technical Education & Training (BTET) (as applicable) and fulfilling State Govt. requirements for admission. If institution is unable to start in the academic session 2014-15 due to reason mentioned above, the institution will have to apply On-line on AICTE web portal in the next academic session for continuation of approved intake 2014-15.

The Society/Trust/Institution shall obtain necessary affiliation / permission from the concerned affiliating University/ Board of Technical Education (BTE)/ Board of Technical Education & Training (BTET)(as applicable) as per the prescribed schedule of the University/ Board of Technical Education (BTE)/ Board of Technical Education & Training (BTET)(as applicable) Admission authority etc. The Applicant Society/Trust/Institution shall send information about commencement of the above courses to AICTE. In case the Institution is not in a position to commence the above mentioned courses for whatever reason during the two years period from the date of issue of this letter, the approval becomes invalid and the applicant Society/Trust/Institution shall make fresh application to AICTE for grant of approval as per the norms prevailing at that time.

All Institutions shall fulfill the following general conditions:

1. The management shall provide adequate funds for development of land and for providing related infrastructural, instructional and other facilities as per norms and standards laid down by the Council from time to time and for meeting recurring expenditure.
2. The admission shall be made only after adequate infrastructure and all other facilities, including the availability / recruitment of the required faculty are provided as per norms and guidelines of the AICTE.
3. The admissions shall be made in accordance with the regulations notified by the Council from time to time.
4. The curriculum of the course, the procedure for evaluation / assessment of students shall be in accordance with the norms prescribed by the AICTE and concerned affiliating university/ Board of Technical Education (BTE)/ Board of Technical Education & Training (BTET)(as applicable) wherever applicable.
5. The management of the Institution shall not close the Institution or the institution shall not discontinue any course(s) or start any new course(s) or alter intake capacity of seats without the prior approval of the Council.
6. No excess admission shall be made by the Institution over and above the approved intake under any

Application Number: 1-2191633831*

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circumstances. In case any excess admission is reported to the Council, appropriate action as per the notified regulations shall be initiated against the Institution.

7. The institutions shall not have any collaborative arrangements with any Indian and / or Foreign Universities for conduct of technical courses other than those approved by AICTE without obtaining prior approval from AICTE. In case any violation is reported to the Council, appropriate action as per the notified regulations shall be initiated against the Institution.
8. The Institution shall not conduct any course(s) in the field of technical education in the same premises / campus and / or in the name of the Institution without prior permission / approval of AICTE. If found so, appropriate action as per the notified regulations shall be initiated against the Institution.
9. The institution shall not conduct any non-technical course (s) in the same premises under any circumstances. In case any violation is reported to the Council, appropriate action as per the notified regulations shall be initiated against the Institution.
10. The institution shall operate only from the approved location, and that the institution shall not open any off campus study centers / extension centers directly or in collaboration with any other institution / university / organization for the purpose of imparting technical education without obtaining prior approval from the AICTE. If found so, appropriate action as per the notified regulations shall be initiated against the Institution.
11. The tuition and other fees shall be charged as prescribed by the Competent Authority within the overall criteria prescribed by the Council from time to time. No capitation fee shall be charged from the students / guardians of students in any form. If found so, appropriate action as per the notified regulations shall be initiated against the Institution.
12. The accounts of the Institution shall be audited annually by a certified Chartered Accountant and shall be open for inspection by the Council or anybody or persons authorized by it.
13. The Director / Principal and the teaching and other staff shall be appointed in given time frame and selection shall be done according to procedures, qualifications and experience prescribed by the Council from time to time and pay scales are as per the norms prescribed by the Council from time to time.
14. The technical institution shall publish an information booklet before commencement of the academic year giving details regarding the institution and courses / programs being conducted and details of infrastructural facilities including faculty etc. in the form of mandatory disclosure. The information booklet may be made available to the stakeholders of the technical education. The mandatory disclosure information, as per directions in the AICTE website / Approval Process Handbook, shall be put on the Institution Website. The information shall be revised every year with updated information about all aspects of the institution.
15. It shall be mandatory for the technical institution to maintain a Website providing the prescribed information. The Website information must be continuously updated as and when changes take place.
16. If a technical Institution fails to disclose the information or suppress and / or misrepresent the information, appropriate action as per the notified regulations shall be initiated against the Institution.

Application Number: 1-2191633831*

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All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
Phone: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

17. AICTE may carry out random inspections round the year for verifying the status of the Institutions to ensure maintenance of norms and standards.
18. AICTE may also conduct inspections with or without notifying the dates to verify specific complaints, to verify adherence to AICTE norms & standards, and to verify any mis-representation, violation of norms & standards, mal-practices etc.
19. The Institution by virtue of the approval given by Council shall not automatically become claimant to any grant-in-aid from the Central or State Government.
20. In the event of a student / candidate withdrawing before the starting of the course, the wait listed candidates should be given admission against the vacant seat. The entire fee collected from the student, after a deduction of the processing fee of not more than Rs. 1000/- (Rupees one thousand only) shall be refunded and returned by the Institution / University/ Board of Technical Education (BTE)/ Board of Technical Education & Training (BTET)(as applicable) to the student / candidate withdrawing from the program. It would not be permissible for Institutions and Universities to retain the School / Institution Leaving Certificates in original to force retention of admitted students.
21. The Institute shall take appropriate measures for prevention of ragging in any form, in the light of AICTE regulation "Prevention and Prohibition of Ragging in Technical Institutions, Universities including Deemed to Universities imparting technical education" Regulation 2009 (F.No. 37-3/Legal/AICTE/2009 dated 01/07/2009). In case of failure to prevent the instances of ragging by the Institutions, the Council shall take appropriate action as per the notified regulations.

The Management of the Institute shall strictly follow further conditions as may be specified by the Council from time to time. The Council may withdraw the approval, in case it observe any violation of the above conditions and / or non-adherence to the norms and standards prescribed by the Council, mis-representation of facts and submitting factually in correct information to it.

(Dr. Kuncheria P. Isaac)
Member Secretary , AICTE

Copy to:

1. **The Regional Officer,**
All India Council for Technical Education
Govt. Polytechnic Campus
Adjoining Directorate of Technical Education
Vikas Nagar, Kanpur-208 002, Uttar Pradesh
2. **The Director Of Technical Education,**
Bihar
4. **The Principal / Director,**
CENTRAL UNIVERSITY OF BIHAR
CENTRAL UNIVERSITY OF BIHAR, BIT CAMPUS, PO:BV COLLEGE, PATNA - 800014, BIHAR.

Application Number: 1-2191633831*

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All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

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Phone: 2372415/1/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

PATNA,PATNA,
Bihar,800014

5. **The Secretary / Chairman,**
CENTRAL UNIVERSITY OF BIHAR
BIT CAMPUS, PO:BV COLLEGE, PATNA -800014
BIHAR,
PATNA,PATNA,
Bihar,800014
6. **Guard File(AICTE)**

Application Number: 1-2191633831*

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Annexure-III : List of Subjects-Syllabus Revision

Sl	Subject	Date of Board of Studies
1	Political Studies	22/02/2013 to 23/02/2013
		01/12/2014 to 02/12/2014
2	Psychological Sciences	22/02/2013 to 23/02/2013
		10/02/2014 to 11/02/2014
3	Education	31/1/2014 to 02/02/2014
4	Law & Governance	07/11/2014
4	Indian Language(Hindi)	13/02/2013
		14/02/2014
5	Development Studies	22/02/2013 to 23/02/2013
		19/02/2014
6	Economic Studies and Policies	22/02/2013 to 23/02/2013
7	Statistics	26/07/2014
8	Bioinformtics	18/05/2014
9	Mathematics	18/02/2013
		15/02/2014
10	Biotechnology	01/03/2013 to 02/03/2013
11	Environmental Science	05/04/2012 to 06/04/2012
		17/03/2012
12	Life Science	02/03/2013 to 03/03/2013
		25/02/2013 to 27/02/2013
		08/11/2014
13	Foreign Language (English)	12/02/2013 to 13/02/2013
14	Sociological Studies	22/02/2013 to 23/02/2013
		18/02/2014
15	Computer Science	26/05/2014
16	Mass Communication & Media	17/03/2012
		13/03/2013

Annexure-IV : List of Minor and Major Research

Given in SSR main text criterion 3 (80-82p. Section 3.2.3)



Annexure-VI : List of teacher who have attended Refresher Course and Orientation Programme in the last five years

Sl. No.	Name of the Faculty	Designation	Department/Centre	Course done
1	Dr. Rajesh Pratap Singh	Assistant Professor	Mathematics	Orientation Programme
2	Dr. Jitendra Singh	Assistant Professor	Mathematics	Orientation Programme
3	Dr. Das Ambika Bharti	Assistant Professor	Psychology	Orientation Programme
4	Dr. Amit Kumar Misra	Assistant Professor	Statistics	Orientation Programme
5	Dr. Rajesh Kumar Ranjan	Assistant Professor	EVS	Orientation Programme
6	Mr. Yogesh Pratap Shekhar	Assistant Professor	Hindi	Orientation Programme
7	Dr. Karmanand Arya	Assistant Professor	Hindi	Orientation Programme
8	Dr. Sumit Kumar Pathak	Assistant Professor	Political Studies	Orientation Programme
9	Dr. Krishna Kumar Ojha	Assistant Professor	Bioinformatics	Orientation Programme
10	Dr. Vivek Kumar Jain	Assistant Professor	Mathematics	Orientation Programme
11	Dr. Roushan Kumar	Assistant Professor	Mathematics	Orientation Programme
12	Dr. Durg Vijay Singh	Assistant Professor	Bioinformatics	Orientation Programme
13	Dr. Antresh Kumar	Assistant Professor	Biotechnology	Orientation Programme
14	Dr. Abhay Kumar	Assistant Professor	Political Studies	Orientation Programme
15	Dr. Kafeel Ahmad Naseem	Assistant Professor	Urdu	Orientation Programme
16	Mr. Shanti Bhushan	Assistant Professor	Hindi	Orientation Programme
17	Dr. Mukesh Kumar	Assistant Professor	Statistics	Orientation Programme
18	Dr. Haresh Narayan Pandey	Assistant Professor	Sociology	Orientation Programme



19	Dr. Pranav Kumar	Assistant Professor	Political Studies	Orientation Programme
20	Dr. Prashant	Assistant Professor	EVS	Orientation Programme
21	Dr. Nitish Kumar	Assistant Professor	Biotechnology	Orientation Programme
22	Dr. Gautam Kumar	Assistant Professor	Life Science	Orientation Programme
23	Mr. Sujeet Kumar	Assistant Professor	CMS	Orientation Programme
24	Mr. Nemi Chandra Rathore	Assistant Professor	Computer Science	Orientation Programme
25	Dr. Anil Kumar	Assistant Professor	Bioinformatics	Orientation Programme
26	Dr. N. L. Devi	Assistant Professor	EVS	Orientation Programme
27	Sh. Atish Kumar Dash	Assistant Professor	Economics	Orientation Programme
28	Mr. Yogesh Pratap Shekhar	Assistant Professor	Hindi	Refresher Course
29	Dr. Vivek Kumar Jain	Assistant Professor	Mathematics	Refresher Course
30	Dr. Rajesh Pratap Singh	Assistant Professor	Mathematics	Refresher Course
31	Dr. Rajesh Kumar Ranjan	Assistant Professor	EVS	Refresher Course
32	Mr. Jainath Yadav	Assistant Professor	Computer Science	Short term course
33	Dr. Pradip Kumar Das	Assistant Professor	Law	Short term course
34	Dr. R. Rajesh	Associate Professor	Computer Science	Inter Disciplinary Refresher Course

Annexure-VII : Income & Expenditure account for 2010-14

		बिहार केन्द्रीय विश्वविद्यालय Central University of Bihar	
CENTRAL UNIVERSITY OF BIHAR			
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MAR. 2011 CERTIFICATE COURSE OF CHILD PROTECTION PLAN			
PARTICULARS	SCHEDULES	YEAR ENDED 31.03.2011	YEAR ENDED 31.03.2010
A. INCOME			
Income from sales / services		-	-
Grants / subsidies		-	456,000.00
Fees/Subscriptions		-	137,750.00
Income from Investments .		-	-
Income from Royalty, Publication etc.		-	-
Interest earned		5,998.00	-
other income		-	-
Increase / (Decrease) in stock		-	-
	Total Rs.	5,998.00	593,750.00
B. EXPENDITURE			
Establishment expenses		-	-
Othe Administrative expenses etc.		496,816.00	84,975.00
Expenditure on grants, Subsidies etc.		-	-
Interest		-	-
Depreciation W/off		1,718.00	-
	Total Rs.	498,534.00	84,975.00
Balance being excess of Income over Expenditure		(492,536.00)	508,775.00
Transfer to Special Reserve		-	-
Transfer to / from General reserve		-	-
Balance being surplus / (Deficit) Carried toIncome and expenditure account		(492,536.00)	508,775.00

Authorised signatory of Central University of Bihar



बिहार केन्द्रीय विश्वविद्यालय
Central University of Bihar



CENTRAL UNIVERSITY OF BIHAR

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31.03.2012

(Amount in Rs.)

	Schedule	Current Year				Total Amount	Previous year Total Amount
		Unrestricted Funds			Restrict ed Fund		
		Corpus	Designat ed Funds	Genreal Funds			
INCOME							
Academic Receipts	11	-	-	45,03,401.70	-	45,03,401.70	22,10,363.00
Grants & Donations	12	-	-	-	-	-	15,00,00,000.00
Income from Investments	13	-	-	-	-	-	-
Other Incomes	14	-	-	78,95,344.12	-	78,95,344.12	64,40,741.92
Income/(Expenditure) over Expenses/ Income from CCCP		-	-	(216.00)	-	(216.00)	(4,92,536.00)
TOTAL (A)		-	-	1,23,98,529.82	-	1,23,98,529.82	15,81,58,568.92
Staff Payments & Benefits	15	-	-	2,91,33,887.84	-	2,91,33,887.84	1,73,34,086.00
Academic Expenses	16	-	-	40,79,406.00	-	40,79,406.00	16,24,636.00
Administrative and General Expenses	17	-	-	1,52,27,583.00	-	1,52,27,583.00	1,12,40,432.00
Transportation Expenses	18	-	-	11,65,877.00	-	11,65,877.00	6,47,856.00
Repairs & Maintenance	19	-	-	4,71,686.00	-	4,71,686.00	32,583.00
Finance Costs	20	-	-	6,369.00	-	6,369.00	1,790.00
Other Expenses	21	-	-	-	-	-	-
Depreciation W/off		-	-	77,22,764.14	-	77,22,764.14	70,47,185.04
TOTAL (B)		-	-	5,78,07,572.98	-	5,78,07,572.98	3,79,28,568.04
Balance being excess of Income Over Expenditure (A-B)		-	-	(4,54,09,043.16)	-	(4,54,09,043.16)	12,02,30,000.88
Transfer to / from Designated Funds		-	-	-	-	-	-
Building Fund		-	-	-	-	-	-
Others (specify)		-	-	-	-	-	-
Balance being Surplus(Deficit) Carried to General Funds		-	-	(4,54,09,043.16)	-	(4,54,09,043.16)	12,02,30,000.88


Rashmi Tripathi
Rashmi Tripathi
Dy. Registrar & F.O.
Central University of Bihar
B.I.T. Campus, Patna

CENTRAL UNIVERSITY OF BIHAR

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31.03.2013

	Schedule	Current Year				Total Amount	Previous year Total Amount
		Unrestricted Funds			Restricted Fund		
		Corpus	Designated Funds	General Funds			
INCOME							
Academic Receipts	11	-	-	39,45,066.00	-	39,45,066.00	45,03,401.70
Government Grants	12	-	-	8,05,52,221.66	-	8,05,52,221.66	-
Income from Investments	13	-	-	-	-	-	-
Other Incomes	14	-	-	26,28,166.78	-	26,28,166.78	78,95,344.12
Interest Earned	14	-	-	39,34,127.56	-	39,34,127.56	-
Income/(Expenditure) over Expenses/ Income from CCCP		-	-	-	-	-	(216.00)
TOTAL (A)		-	-	9,10,59,582.00	-	9,10,59,582.00	1,23,98,529.82
EXPENDITURE							
Establishment Expenses	15	-	-	4,99,39,814.16	-	4,99,39,814.16	2,91,33,887.84
Academic Expenses	16	-	-	86,18,003.00	-	86,18,003.00	40,79,406.00
Administrative and General Expenses	17	-	-	1,91,79,111.50	-	1,91,79,111.50	1,52,27,583.00
Transportation Expenses	18	-	-	19,13,578.50	-	19,13,578.50	11,65,877.00
Repairs & Maintenance	19	-	-	8,91,903.00	-	8,91,903.00	4,71,686.00
Finance Costs	20	-	-	9,811.50	-	9,811.50	6,369.00
Other Expenses	21	-	-	-	-	-	-
Depreciation W/off		-	-	2,19,87,579.00	-	2,19,87,579.00	77,22,764.14
TOTAL (B)		-	-	10,25,39,800.66	-	10,25,39,800.66	5,78,07,572.98
Balance being excess of Income Over Expenditure (A-B)		-	-	(1,14,80,218.66)	-	(1,14,80,218.66)	(4,54,09,043.16)
Transfer to / from Designated Funds		-	-	-	-	-	-
Building Fund		-	-	-	-	-	-
Others (specify)		-	-	-	-	-	-
Balance being Surplus/(Deficit) Carried to General Funds		-	-	(1,14,80,218.66)	-	(1,14,80,218.66)	(4,54,09,043.16)
Notes on Accounts	22						


(Mani Shankar Singh)
Section Officer (A/Cs.)


(B.K. Pandey)
Finance Officer

Place: Patna
Date : 03.07.2013

CENTRAL UNIVERSITY OF BIHAR
INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31.03.2014

Particulars	Schedule	Current Year (2013-14)				Total	Previous year (2012-13) Total Amount
		Unrestricted Funds		Restricted Fund			
		Corpus	Designated Funds	General Funds			
INCOME							
Academic Receipts	11	₹ -	₹ -	₹ 95,95,243.00	₹ -	₹ 95,95,243.00	
Grants & Donations (To the Extent of Cash-Revenue Expenditure)	12	₹ -	₹ -	₹ 15,30,80,733.15	₹ -	₹ 15,30,80,733.15	
Income from Investments	13	₹ -	₹ -	₹ -	₹ -	₹ -	
Other Incomes	14	₹ -	₹ -	₹ 40,95,026.60	₹ -	₹ 40,95,026.60	
Interest Earned	14	₹ -	₹ -	₹ 1,08,76,446.21	₹ -	₹ 1,08,76,446.21	
TOTAL (A)		₹ -	₹ -	₹ 17,76,47,448.96	₹ -	₹ 17,76,47,448.96	
EXPENDITURE							
Establishment Expenses	15	₹ -	₹ -	₹ 8,29,01,205.00	₹ -	₹ 8,29,01,205.00	
Academic Expenses	16	₹ -	₹ -	₹ 1,37,82,452.00	₹ -	₹ 1,37,82,452.00	
Administrative and General Expenses	17	₹ -	₹ -	₹ 5,05,72,636.70	₹ -	₹ 5,05,72,636.70	
Transportation Expenses	18	₹ -	₹ -	₹ 37,73,794.00	₹ -	₹ 37,73,794.00	
Repairs & Maintenance	19	₹ -	₹ -	₹ 20,14,180.00	₹ -	₹ 20,14,180.00	
Finance Costs	20	₹ -	₹ -	₹ -	₹ -	₹ -	
Other Expenses	21	₹ -	₹ -	₹ 36,485.45	₹ -	₹ 36,485.45	
TOTAL (B)		₹ -	₹ -	₹ 15,30,80,733.15	₹ -	₹ 15,30,80,733.15	
Depreciation (During the Year) (C)	6	₹ -	₹ -	₹ 1,89,59,007.20	₹ -	₹ 1,89,59,007.20	
Excess of Expenditure over Income (A)-(B+C)		₹ -	₹ -	₹ 56,07,708.61	₹ -	₹ 56,07,708.61	
Excess Depreciation Claimed due to change in accounting policy (D)		₹ -	₹ -	₹ -1,55,71,295.23	₹ -	₹ -1,55,71,295.23	
Prior Period Item/Reversal of Depreciation Claimed in earlier year	Refer Dep. Schedule	₹ -	₹ -	₹ 7,74,862.00	₹ -	₹ 7,74,862.00	
Balance being Surplus(Deficit) Carried to General Funds		₹ -	₹ -	₹ 2,19,53,865.84	₹ -	₹ 2,19,53,865.84	
Notes on Accounts	22						

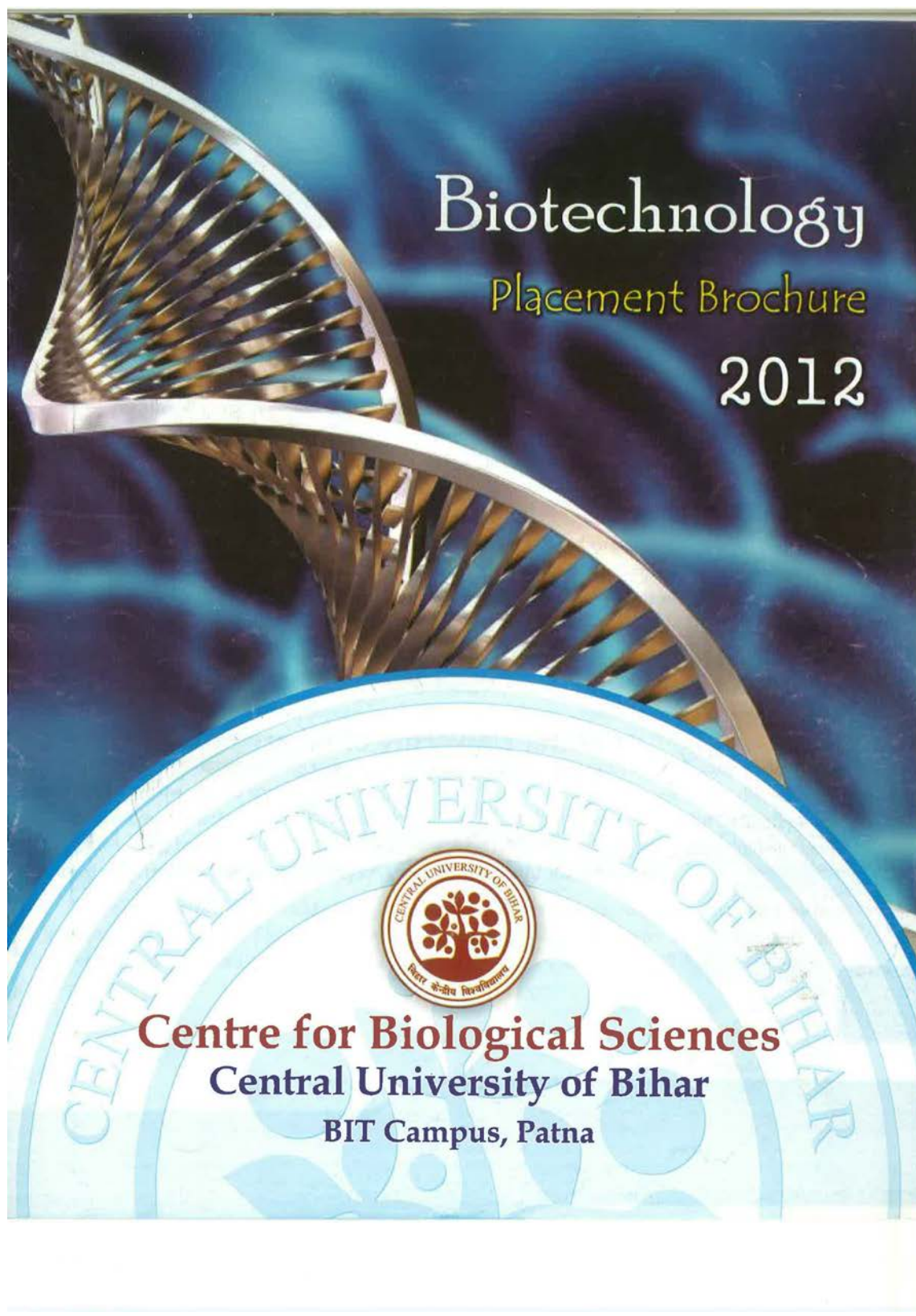
Anit Kumar
Section Officer(F&A)

Praveen Kumar,
Asst Registrar(F&A)
Praveen Kumar

Finance officer
CMA B.K. Pandey



Annexure-VIII (A) :Placement Brouchre 2012-13





CUB Placement Brochure, 2012



Central University of Bihar

BIT Campus, PO: B V College,
Patna - 800014, Bihar, India

Ph No: +91-612-226537

University's Website: <http://www.cub.ac.in>



CUB Placement Brochure, 2012

Message:

Vice Chancellor, Central University of Bihar

The Central University of Bihar, founded in 2009 by the Act of Parliament, is a national institution of excellence for teaching, research and applications of knowledge for the improvement of social and economic conditions and wellbeing of the people, their intellectual, academic, and cultural development. The University presently located in Patna made a modest beginning in 2009-10 by launching of a Master's Programme in Development Studies. The University added in the academic session 2010-11, five Master's Programmes in Biotechnology, Computer Science, Environmental Science, Mathematics, and Statistics and in 2011-12 Psychology, Communication and Media Studies & Bioinformatics.



The Centre for Biotechnology under the School of Earth, Biological and Environmental Sciences launched its – two years (four-semesters) Master Programme in 2010 to provide students sound theoretical and practical knowledge and training to prepare them as competent researchers and practitioners. The post graduate program has been developed with a vision to make an impact through research, technology based training and innovation and service to mankind. The emphasis has been laid on thorough training to every individual student. I am confident that our graduating students this year 2012 are capable to study, analyse and seek solutions to problems related to any discipline of biotechnology. A detail course structure and other requirements for M.Sc. in Biotechnology are presented in the brochure. In addition to class room and laboratory based courses, the students have earned experience of internship training.

I am certain that they would serve efficiently and competently the role assigned to them by the organizations which they join. I invite Organizations to visit the campus for interactions with the students. I wish good luck to graduating students and am sure they will succeed in their placement.



(JanakPandey)



CUB Placement Brochure, 2012

Message:

Head of Department

The Central University of Bihar, established in February 2009 by the Act of Parliament, launched Master program in Biotechnology in 2010. It is a distinctive and innovative program, so is its curriculum, developed by a team of internationally acclaimed and distinguished Professors of Biotechnology of this country. The students are imparted advanced knowledge in various disciplines of Biotechnology, like Cell Biology & Genetics, Microbiology, Biomolecules, Instrumentation- Tools & Techniques in Biotechnology, Molecular Biology & Genomics, Basic Enzymology & Enzyme Technology, Bioprocess Engineering, Environmental Biotechnology, Biostatistics, Computer Application & Data Analysis, Recombinant DNA Technology, Biology of Immune System, Animal Biotechnology, Plant Biotechnology, Bioinformatics besides a set of major and minor elective courses like Fermentation Technology, Nano-biotechnology, Medical Biotechnology, Entrepreneurship Development and Management in Biotechnology, Metabolic Engineering, Drug Designing, Protein Modelling and Chemo-informatics, Micro-propagation of Elite/Endangered Plants, Biological Food Processing, and Project Dissertation, by the three competent faculties. The students do acquire practical training, in different laboratories, in different areas of the subject concerned. The students are directly engaged in intricate and contemporary issues related to Biotechnology during the preparation of Master Degree Thesis with a taught course, followed by primary data generation in the labs, data processing and finally thesis writing. These exercises help them to become an independent quality researcher.

They have the ability to pursue higher education and do independent quality research. They are also competent to join appropriate jobs, immediately after earning their Master Degree. I am fully confident that they would exhibit their abilities and prove their worth as competent Biotechnologists as and when they get opportunity for the same.

(Ravindra Kumar Sinha)





CUB Placement Brochure, 2012

Message:

Placement Coordinator Message

Students at CUB are exposed to attitudes and approaches that teach them to think independently, and work efficiently. Efforts are made for all-round development of our students, so that after earning master in Biotechnology they are capable of undertaking any Biotechnology related job. They are trained to perform the assigned duty efficiently. Punctuality and sincerity that exist among the University community are profoundly embedded in all of them.

The students of Biotechnology have got hands-on experience with different Biotechnological techniques like Plant Tissue Culture, Transgenic Crop Development, Molecular Marker Development, Recombinant DNA Technology, Microbial Biotechnology and Biochemical assays.

The exposure and opportunities are available for overall development of both, faculty and students, and we at CUB cater the sense of social responsibility within its walls. The discipline and dedication of the faculty and students, project work, summer training, and extra-curricular activities further strengthen students and make them highly competent.

The laboratories and other facilities, State-of-the-art, and among the best in the University, are always open to master students. The library is extensive and serves as good support for the teaching-learning process.

The Career Counseling –cum– Placement Cell of the university is a professional entity establishing linkages with prospective employers, industry associations and other such placement cells of institutes in India

On behalf of the Career Counseling –cum–Placement Cell, I am pleased to invite your esteemed organization for the placement of our students of M. Sc. Biotechnology at the Central University of Bihar, Patná. Based on skills and values imbibed among them I trust that this batch of M. Sc. Biotechnology students will set newer benchmarks and establish the image of the CUB irreplaceable when it will come to producing the country's best natural-resource managers and Biotechnologist.

(Dr. Ram Kumar)





CUB Placement Brochure, 2012

About Central University of Bihar

Established by the Central Universities Act, 2009 (25 of 2009), The Central University of Bihar (CUB) with a unique academic system is a body community with high academic excellence. This Act which is available on University website at www.cub.ac.in provides basic legal framework for the University including its academics, administration and other aspects. The University is presently located at the premises of Birla Institute of Technology- Patna (Camp Office: BIT Campus, PO: B.V. College, Patna – 800014). Permanent location of the University is under consideration of the Central Government. The University made its beginning by establishing the Centre of Development Studies under the School of Social Sciences and Policy and launched a two years Master Programme in Development Studies in the academic session 2009-2011. In the very next academic session 2010-2012 university launched five more courses including Biotechnology. Presently the University is running nine courses and will be launching further courses in coming years. The CUB Executive Council has approved 14 Schools of Studies representing various knowledge areas.

Objectives of the University

The objectives of the University shall be

- ❖ To disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit;
- ❖ To make special provisions for integrated courses in humanities, social sciences, science and technology in its educational programmes;
- ❖ To take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research; to educate and train manpower for the development of the country;
- ❖ To establish linkages with industries for the promotion of science and technology; to pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development.



CUB Placement Brochure, 2012

About Biotechnology

Biotechnology is that branch of science which amalgamates Biology and Technology in order to derive productive results from biological organism through technological applications. A marriage of biology with technology as often said about biotechnology is relatively a newer field of study. The understanding and application of biotechnology adds great value to various aspects of life. Biotechnology has proved as an effective tool for food production, food storing, environmental conservation and preservation, development of important lifesaving drugs and vaccines etc. and many more.

Biotechnology is improving the lives of people around the world by producing valuable products, whether it is the production of pharmaceutical product like insulin or agricultural product like BT cotton.

Agricultural biotechnology has reduced our dependency on pesticides. Bioremediation technologies are being used to clean our environment by removing toxic substances from contaminated ground water and soils.

Biotechnology also has affected economy in a positive way due to the creation and growth of small business, generation of new jobs. Modern biotechnology products started coming to the market in the late 1980's. Today, about 60% of the biotechnology products in the market are healthcare products and 21% are products used in agriculture and animal husbandry. A considerable amount of efforts in research are going on, to use and extract benefit from this interesting and upcoming field for the betterment of human life and the environment. Thus in near future biotechnology would be become savior for humanity.



CUB Placement Brochure, 2012

Biotech at CUB

The two year masters programme in biotechnology is an intensive, theoretically and practically oriented multi-disciplinary programme which aims to equip the students with critical, analytical and practical skills that will be of use in their future careers, either as academician, wage earner or a research scholar. The course provides opportunity to students to interact with renowned and pioneer research scholars in the field of biological research and learn research methods (qualitative and quantitative). The programme is well equipped with standard laboratory with latest research instruments that enhance the practical skills of the students. The institution regularly hosts seminars and symposium to make students know about the latest advances in the field. The course is well guided by a team of young, energetic and innovative faculty members that have expertise in their respective discipline and experience in working in various well-equipped laboratories. The course structure is so designed to bring about depth in theoretical as well as practical knowledge of the subject to the students.



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Laboratory at a glance

Biotech lab was established in September 2010. Since then the lab has been equipped with all the basic facilities and efforts are on to develop it into state of art laboratory. Different kind of research work is going on covering Molecular biology, Microbiology and Tissue culture. The lab has a good asset of instruments as listed below

- o Real Time PCR
- o Fluorescent microscope
- o Millipore water purification system
- o BOD incubator
- o Shaker incubator
- o Refrigerated Centrifuge
- o UV/VIS Spectrophotometer
- o Phage contrast Microscope
- o PCR machine
- o Gel Documentation System

Research thrust areas

- o Isolation and Molecular Characterization of Heavy metal tolerant bacteria collected from Coal mines or Thermal Power Plant
- o Development of Methodology for Micropropagation of Papaya, Banana, Catharanthus
- o Development of Drought tolerant lines for Wheat, Rice, Maize etc.
- o Development of Genetic Transformation protocol for Wheat, Rice, maize etc.
- o Recombinant DNA Technology: Gene Cloning, Expression and Purification
- o Microbial Biotechnology



CUB Placement Brochure, 2012

Admission Process of CUB

Admission Process: Through CUCET (Central Universities Common Entrance Test)

About the program: This program is divided into 4 semesters over a period of 2 years.

Students: There are 18 eligible graduates ranging to go and make their mark.

Research Competence:

Summer Training: Students undergo training in reputed academic institutions in India during the summer vacation following the second semester which include

CSIR-Centre for Cellular and Molecular Biology (CCMB)

CSIR-Indian Institute of Integrative Medicine (IIIM), Srinagar (J&K)

Guru Jambheshwar University of Science & Technology, Hisar

Indian Institute of Technology, Guwahati

Indian Institute of Technology, Madras

Jawaharlal Nehru University

Kumaun University, Nainital

North Eastern Hill University, Shillong

ICMR-RMRIMS, Patna

University of Delhi

Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

Computer Laboratory

Hi tech computer lab is providing a central computing facility to students, faculties and staffs of the university. It is equipped with internet and intranet facilities, accessible anytime.



Library

The Cub library has extensively used the modern means of communication in order to serve its users in a better way. The library has been completely automated with web based library automation software. The library has got a vast collection of good number of copies of quality books and it also subscribes a series of most informative and current, top print journals both national and international. Above all it also provides access to more than 4,000 e-journals, from five international publishers' viz. Springer, Taylor & Francis, Wiley-Blackwell, Oxford, Cambridge. Besides, library subscribes 1183 online journals of Science Direct in five subject collection.





CUB Placement Brochure, 2012.

Course Structure of M.Sc. Biotechnology

Course Duration: 2 years [4 Semesters]

Semester I

Course Code	Courses	Credits
BT501	Cell Biology & Genetics	4
BT502	Microbiology	6
BT503	Biomolecules	4
BT 504	Instrumentation: Tools & Techniques in Biotechnology	6
BT 505	Laboratory I	2
		22

Semester II

Course Code	Courses	Credits
BT 526	Molecular Biology & Genomics	4
BT 527	Basic Enzymology & Enzyme Technology	4
BT 528	Bioprocess Engineering	4
BT 529	Environmental Biotechnology	4
BT 530	Biostatistics, Computer Application & Data analysis	4
BT 531	Laboratory II	2
		22

Semester III

Course Code	Courses	Credits
BT 532	Recombinant DNA Technology	4
BT 533	Biology of Immune System	4
BT 534	Animal Biotechnology	4
BT 535	Plant Biotechnology	4
BT 536	Project: Experimental & Data Analysis	4
		20



CUB Placement Brochure, 2012

Semester IV

Course Code	Courses	Credits
BT 537	Bioinformatics	4
BT 691-695	Major Elective (One to be opted from elective basket)	6
BT 696-698	Minor Elective (One to be opted from elective basket)	4
BT 699	Project Dissertation, Presentation and Comprehensive Viva-voce	4
		18

BT 691- 695: Major Elective Basket

Course Code	Name of Paper
BT 691	Fermentation Technology
BT 692	Nano -biotechnology
BT 693	Medical Biotechnology
BT 694	Entrepreneurship Development and Management in Biotechnology
BT 695	Metabolic Engineering

BT 696 - 697: Minor Elective Basket

Course Code	Name of Paper
BT 696	Drug Designing, Protein Modelling and Cheminformatics
BT 697	Micropropagation of Elite/Endangered Plants
BT 698	Biological Food Processing



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CUB Placement Brochure, 2012

Faculty

Prof. R.K. Sinha

Designation : Professor and Head, Environmental Science, Earth Biological and Environmental Science

Area of interest : Limnology, River Ecology, Bio-monitoring of water quality Ganges river dolphin, Conservation biology, Pollution biology

Qualification : PhD (Ecology of the river Ganga, Patna University)

E. mail : rksinha@cub.ac.in



Prof. M. NehaL

Designation : Registrar, Central University of Bihar

Qualification : Ph.D. (Life science, JNU, New delhi)

Area of interest: Enzymology, Gerontology

E. mail : registrar@cub.ac.in



Dr. Nitish Kumar

Designation : Assistant Professor, Centre for Biological Sciences

Qualification : Ph.D (CSIR-CSMCRI, Bhavnagar)

Area of interest: Plant Biotechnology

E. mail : nitish@cub.ac.in



Dr. Krishna Prakash

Designation : Assistant Professor, Centre for Biological Sciences

Qualification : Ph.D. (JNU, New Delhi)

Area of interest: Molecular Biotechnology

E. mail : Krishna@cub.ac.in



Dr. Jawed Ahsan

Designation : Assistant Professor, Centre for Biological Sciences

Qualification : PhD (Neurobiology, NCBS, TIFR, Bangalore)

Area of interest: Molecular Biology, Genetics, Neuroethology, Neuroimaging, Electrophysiology

E. mail : jahsan@cub.ac.in





CUB Placement Brochure, 2012

Ms. Chetna Kumari

Designation : Assistant Professor, Centre for Biological Sciences
Qualification : MTech (Bioinformatics, Jawaharlal Nehru University, New Delhi)
Area of interest: Computational Drug Design, Systems Biology, Bioinformatics,
Gene regulation & Cell Signaling, IPR Management.
E. mail : chetna2011@cub.ac.in



Dr. Sanjeev Bakshi

Designation : Assistant Professor, Centre for Statistics
Qualification : MSc (Statistics, Kurukshetra University)
Area of interest: Statistical methods and data analysis, application of statistics and
environmental science, and complex system and information theory.
E. mail : sanjeevbakshi@cub.ac.in



Dr. Rakesh Kumar Shukla

Designation : Assistant Professor, Centre for Statistics
Qualification : PhD (Statistics, Banaras Hindu University)
Area of interest: Sampling Theory
E. mail : rakesh.shukla@cub.ac.in



Dr. Rajesh Kumar Ranjan

Designation : Assistant Professor, Environmental Sciences
Qualification : PhD (Environmental Science/ Organic Geochemistry, JNU)
Area of interest: Organic Geochemistry, Biogeochemistry, Environmental Chemistry
E. mail : rajesh.ranjan@cub.ac.in



Guest faculties

Prof. K.P Sinha, L.N Mithilia University, Darbhanga, Bihar
Prof. S.P Sinha, (Rt. Prof.) Patna Science College, Patna.
Prof. Rana Pratap Singh, Dean School of Life Sciences,
CUG, Gujarat



CUB Placement Brochure, 2012

Student Profile: M.Sc. Biotechnology 2010-2012

Abhishek Kumar,

DOB: 2/10/1986

abhishek@cub.ac.in,

Graduation Background: B.Sc. (H) Biological Sciences

Project Handle: State Forensic science Laboratory, PATNA

Summer Internship: Basic Techniques of Molecular Biology at JNU, Delhi

Dissertation: Studies on Regeneration and Genetic Transformation in Maize

Work Experience: Panacea Biotech Okhla plant (6th Month's), New Delhi



Ajay Kumar

ajay@cub.ac.in

DOB: 19/06/1986

Graduation Background: B.Sc. Chemistry

Summer Internship: L.donavani Growth Kinetics and Isolation of

Antigenic Protein important in Pathogenesis at RMRIMS, Patna

Dissertation: Development of regeneration protocol of *Catharanthus roseus*.



Alka Raj

alkaalka200@rediff.com

DOB: 26/01/1990

Graduation Background: B.Sc. Biotechnology

Summer Internship: Purification, Expression and Refolding of Immunotoxin at IITM, Madras

Dissertation: Studies on Regeneration and Genetic Transformation in Wheat



Anshupriya

anshupriya26@gmail.com

DOB: 06/04/1990

Graduation Background: B.Sc. Industrial Microbiology

Summer Internship: Biofuel production, IIT Guwahati, Assam

Dissertation: Isolation and Molecular characterization of Cd Pb and Fe resistant Bacteria



Archana

archana876@yahoo.com

DOB: 18/03/1990

Graduation Background: B.Sc. Biotechnology

Summer Training: Optimization of industrial enzyme cutinase for intracellular production in *thermofidafusca*

Dissertation: Study on effect of PEG on Metabolism of Wheat and its Molecular characterization



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CUB Placement Brochure, 2012

Student Profile: M.Sc. Biotechnology, 2010-2012

Krishana Chandra

krishna_mohar@rediffmail.com

DOB: 13/01/1981

Graduation Background: B.Sc. Biotechnology

Dissertation: In Vitro Regeneration of Banana from male Inflorescence

Work Experience: Working as a Chemist in Emaar Alloys Pvt. Ltd (6th Month's), Jharkhand



Kunal Kumar

kunaljii06@gmail.com

DOB: 06/02/1982

Graduation Background: B.Sc. Biotechnology

Summer Training: Basic Microbiology & Molecular Biological Techniques, GJUST, Hisar

Dissertation: Micro propagation of Banana and Test for Genetic Fidelity using Molecular marker



Mukesh Kumar

mukesh9625@gmail.com

DOB: 20/02/1987

Graduation Background: B.Sc. Biotechnology

Summer Training: Basic Microbiology & Molecular Biological Techniques, GJUST, Hisar

Dissertation: Isolation and molecular characterization of heavy metal (Hg, Ni, Co) tolerant bacteria



Parvaiz Ahmad Shiekh

parvaizrustum@gmail.com

DOB: 14/05/1989

Graduation Background - B.Sc. Life Science

Summer Training: Role of SNP in DNA repair gene XPD and XRCC1 in causing oral and esophageal cancer induced by raw betel nut chewing. NEHU Shillong.

Dissertation: Molecular cloning and Expression of human XPD gene.



Pooja Maurya

poya_123@rediffmail.com

DOB: 03/10/1988

Graduation Background: B.Sc. Biotechnology

Summer Training: Hands on training on Molecular cloning techniques, DU, Delhi

Dissertation: Molecular Cloning & expression of human XRCC1 Gene



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CUB Placement Brochure, 2012

Raman Kumar Ravi

smartramanravi@gmail.com

DOB: 22/02/1984

Graduation Background: B.Sc. Biotechnology

Summer Training: Basic Techniques of Molecular Biology, JNU, Delhi

Dissertation: Study on effect of PEG on metabolism of maize (*Zea mays*) and its molecular characterization



Santosh Kumar Mishra

santmishra1@gmail.com

DOB: 20/12/1985

Graduation Background: B.Sc. Biotechnology

Summer Training: Structure and Functional based Mutagenesis of FP3, CCMB, Hyderabad

Dissertation: Study on cloning expression & functional analysis of Human IRF-2



Shahid Hussian

hussainhzb@gmail.com

DOB: 07/10/1987

Graduation Background: B.Sc. Biotechnology

Summer internship: Agrobacterium mediated transformation of Brassica juncea, Molecular screening and Biochemical analysis of putative transgenic tobacco plant, JNU, New Delhi

Dissertation: Molecular Cloning and Expression of Human IRF-2 gene.



Shweta Kumari

shwetabt21@gmail.com

DOB: 21/11/1983

Graduation Background: B.Sc. Botany

Summer Training: Leishmania donavani genomic DNA isolation and PCR amplification using gene specific primers, RMRIMS, Patna

Dissertation: Studies on Callus Induction and Transformation in *Carica papaya*



Ujjawal Prakash

piyushujawal123@gmail.com

DOB: 15/02/1990

Graduation Background: B.Sc. Biotechnology

Summer Training: Basic Techniques of Molecular Cloning, DU, Delhi

Dissertation: Isolation Biochemical Analysis & Molecular Characterization of Heavy Metal (Pb, Co, Ni, Fe) Bacteria





CUB Placement Brochure, 2012

Umesh Ravi Das

umesh.mp4@gmail.com

DOB: 02/01/1990

Graduation Background: B.Sc. Biotechnology

Summer Training: Isolation and Characterization of Arsenic and lead resistant Bacteria, GGV(CG)

Dissertation: Isolation, Biochemical Analysis & Molecular Characterization of Heavy Metal (Cd, Mn, Zn, Hg) Bacteria



Vaishali

vaishalikhushi@gmail.com

DOB: 15/11/1989

Graduation Background: B.Sc. Zoology

Summer Training: Study on Basic Techniques of Molecular Biology and Plant Tissue Culture, Kumaun University, Nainital

Dissertation: Micropropagation of *Carica papaya*



Vivek Daiya

vivek.nirankari89@gmail.com

DOB: 06/10/1989

Graduation Background: B.Sc. Life Science

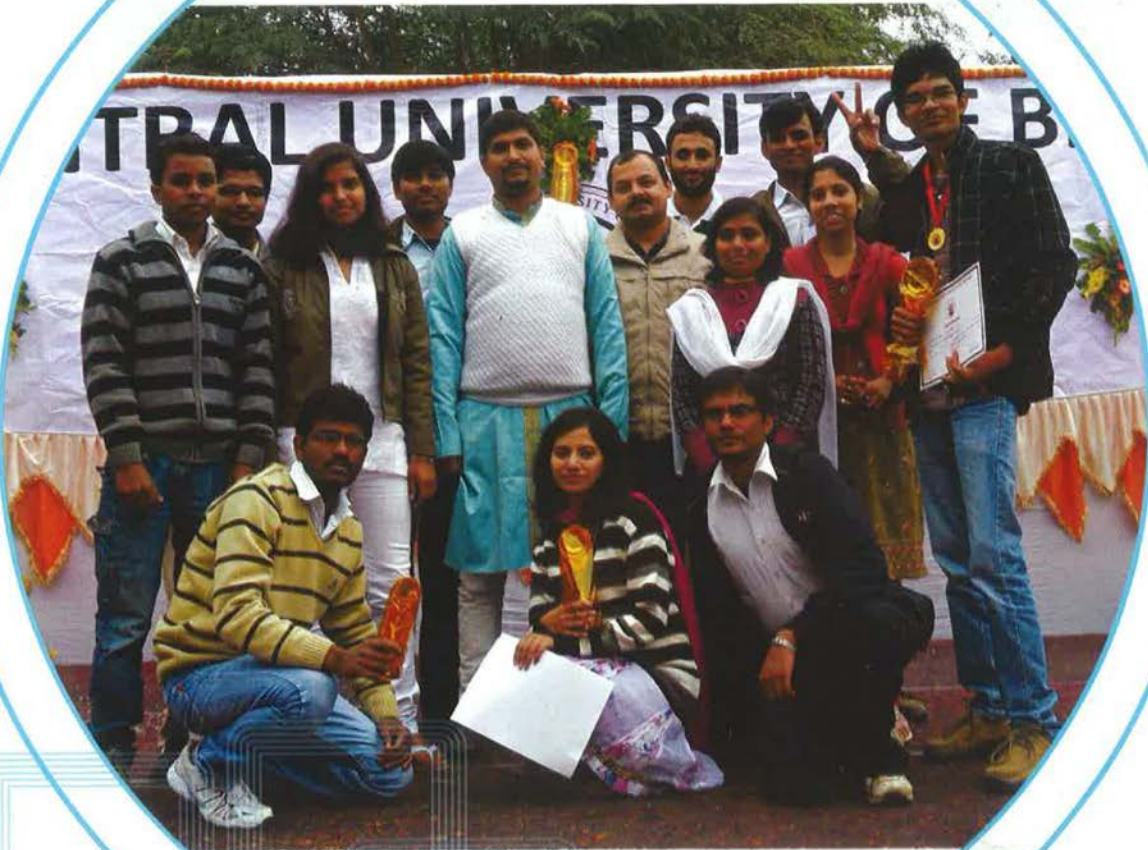
Summer Training: Basic Techniques of Microbiology and Biochemistry, IIM, (CSIR), Srinagar (J & K)

Dissertation: Isolation and Molecular Characterization of Heavy Metal (Hg and Cu) Tolerant Bacteria





CUB Placement Brochure, 2012



**Group photo of Biotechnology Students
with Faculty member**



Placements

Placement procedure

The University invites Organisations/corporations to the Campus through this Placement Brochure.

Organization may like to fill the Job Response form and contact the Placement Officer through email/post for pre placement discussion.

Information provided by the organisation/corporation is made available to all interested students. Who register themselves.

The organisation could confirm or negotiate dates with the placement office and Resumes of interested students made available to the organisation

Short listed students are interviewed and after completion of selection procedure selected students are informed.



CUB Placement Brochure, 2012





CUB Placement Brochure, 2012

Placement Participation Form

Name of the organization.....
 Job title of the vacancy.....
 No. of vacancies.....
 Location details.....
 Name of contact person.....
 Telephone (Office)..... (Residence).....
 Address of communication

Job Details

Functional Area	Location of Posting	Tentative No. of Offers

Job Description (in brief)

 Training Duration (if any)

 Please suggest a suitable date(s)

Mode of Selection

Written Test	Group Discussion	Interview	Others



CUB Placement Brochure, 2012

Placement Guidelines:

1. The university may provide local hospitality and conveyance, however no TA will be paid to the selection team.
2. Minimum package has to be disclosed before the selection process.
3. The employer will be required to disclose all terms and conditions (including the duration between selection and joining) before selection process.
4. Region, religion and cast related questions must not be raised during the selection process.
5. The university will not play any role in case of dispute between employer and employee after recruitment.

For further details contact:

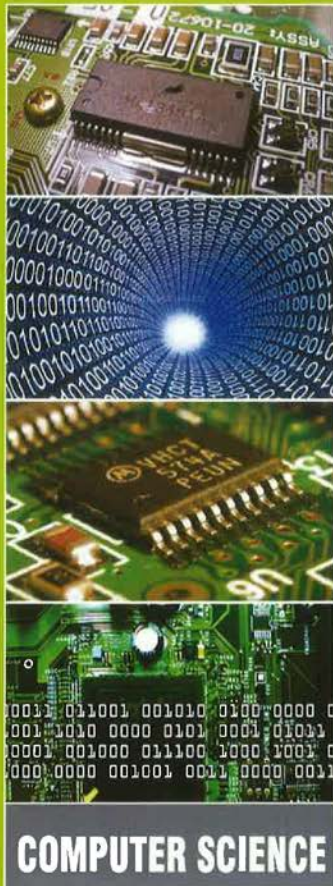
Dr. Ram Kumar
Chairperson, Placements
Email: placements@cub.ac.in
Phone : 0612-2226537

Mobile: 918235426744
Website: www.cub.ac.in

Student Committee:

1. Kunal Kumar
2. Mukesh Kumar

3. Ujjawal Prakash
4. Shahid Hussian



2012



Placement Brochure



Department of Computer Science

CENTRAL UNIVERSITY OF BIHAR
(Established under Central Universities Act 2009)

Camp Office: BIT Campus, P.O.- B.V. College, Patna-800014, BIHAR
Website : www.cub.ac.in



Placement Brochure | 2012



Central University of Bihar

BIT Campus, PO: B V College,
Patna - 800014, Bihar, India

Ph No: +91-612-226537

University's Website: <http://www.cub.ac.in>



2012 Placement Brochure



Prof. Janak Pandey
Vice-Chancellor
Central University of Bihar



The Central University of Bihar, founded in 2009 by the Act of Parliament, is a national institution of excellence for teaching, research and applications of knowledge for the improvement of social and economic conditions and wellbeing of the people, their intellectual, academic, and cultural development. The University presently located in Patna made a modest beginning in 2009-10 by launching of a Master's Programme in Development Studies. The University added in the academic session 2010-11, five Master's Programmes in Biotechnology, Computer Science, Environmental Science, Mathematics, and Statistics and in 2011-12 Psychology, Communication and Media Studies & Bioinformatics.

Master Programme of the Department of Computer Science has been developed maintaining a balance in knowledge of basic and applications of Computer Science so that our graduates become strong to meet challenges of technological innovations. Our Computer Science Post Graduates have also sound foundation in the fundamentals of computing, mathematical and statistical sciences.

A detail course structure and other requirements for M.Sc. in Computer Science are presented in the brochure. In addition to class room and laboratory based courses, the students have also been to fields and have experience of internship training.

I am certain that they would serve efficiently and competently the role assigned to them by the organizations which they join. I invite Organizations to visit the campus for interactions with the students. I wish good luck to graduating students and am sure they will succeed in their placement.



(Prof. Janak Pandey)

Message

Placement Brochure 2012



Dr. Ram Kumar

In-charge,

The Career Counselling-cum -Placement Cell

Students at CUB are exposed to attitudes and approaches that teach them to think independently, and work efficiently. Efforts are made for all-round development of our students, so that after earning master in Computer Science they are capable of undertaking any IT related job. They are trained to perform the assigned duty efficiently. Punctuality and sincerity that exist among the University community are profoundly embedded in all of them.

I am happy to introduce our first graduating batch of M.Sc. Computer Science students as they prepare themselves for forthcoming placement. These students are looking forward to June 2012 when they will graduate and enter the exciting world of IT industry, Research and Academics, after having gone through a rigorous program of two years.

These students are going to complete the 4th semesters. We are confident that while the three semesters studied helped them to build the required theoretical foundation; the latter will allow them to specialize in their chosen directions and to shape themselves professionally in distinct ways.

On behalf of the Career Counselling -cum -Placement Cell, I am pleased to invite your esteemed organization for the placement of our students of M. Sc. Computer Science at the Central University of Bihar, Patna. Based on skills and values imbibed among them I trust that this batch of M. Sc. Computer Science students will set newer benchmarks.

Dr. Ram Kumar

2012 Placement Brochure



Dr. Girish Kumar Singh
Head-Incharge
Department of Computer Science



I am happy to introduce our first graduating batch of M.Sc. Computer Science students as they prepare themselves for forthcoming placement. These students are looking forward to June 2012 when they will graduate and enter the exciting world of IT industry, Research and Academics, after having gone through a rigorous program of two years.

These students are now on the verge of completion of their 4th (final) semester. We are confident that this M.Sc. Course have helped them to build the required theoretical foundation as well as technical their practical knowledge.

I like to take this opportunity to invite to be a part of the placement season this year. We are sure this will be fruitful for our students as well as productive for your organization. We are also sure that two years of hard work by the students and faculty will measure up to your expectations. We look forward to your active participation and hope that this will be in turn strengthening the relationship between your organization and Central University of Bihar.

Message

Dr. Girish Kumar Singh

Placement Brochure | 2012



DEPARTMENT OF COMPUTER SCIENCE



The Central University of Bihar (CUB) is a body, corporate set up by an Act of the Parliament called the Central Universities Act, 2009 (25 of 2009). This act is available on University website at www.cub.ac.in provides basic legal framework for the University including its academics, administration and other aspects. The university is presently located at the premises of Birla Institute of Technology, Patna (Campus office: BIT Campus, PO: B. V. College, Patna-800014). Permanent location of the university is under consideration of the Central Government.

The CUB Executive Council has approved 14 Schools of Studies representing various knowledge areas. The **Department of Computer Science** under the **School of Mathematics, Statistics and Computer Science**, started two years Master Programme in Computer Science in the academic session 2010-2012.

Objective:

“The objects of the University shall be to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit; to make special provisions for integrated courses in humanities, social sciences, science and technology in its educational programmes; to take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research; to educate and train manpower for the development of the country; to establish linkages with industries for the promotion of science and technology; and to pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development.”

Salient features of academic curriculum:

- Maintain national character in admission
- Students are admitted through Central University Combined Entrance Test
- Semester system
- Choice based credit system

'Continuous internal evaluation' is the central feature of the evaluation system of this University.

2012 Placement Brochure

THE UNIVERSITY



The Department of Computer Science was established in 2010 under the School of Mathematics Statistics and Computer Science with the objective of offering world-class education and cutting-edge research opportunities to its students. The department strives for a healthy balance between theory and practice.

On the educational front, the curriculum is designed with a motive to prepare students to be industrial and academic leaders who can apply computer science principles across a wide variety of fields. In addition to fundamental courses, specialized elective courses such as Software Engineering, Artificial Intelligence and Computer Graphics are offered to keep pace with the emerging technologies and trends.

On the research front, the outstanding faculties and students are exploring a wide range of innovative ideas in areas of Data Mining, Cloud Computing, Android Programming, Computational Biology and Bioinformatics. The department is also associated with other prominent faculties from outside CUB.



INFRASTRUCTURE

"Don't limit yourself. Many people limit themselves to what they think they can do. You can go as far as your mind lets you. What you believe, you can achieve"– (Mary Kay Ash, American Businesswoman, founder of Mary Kay cosmetics)

Central University of Bihar gives students and teachers opportunities in terms of infrastructure to achieve the above goal.

Smart Classrooms:



The classrooms are well equipped for modern teaching techniques. Projectors are installed in every classroom for providing visual teaching aids. Also there is facility of computers with high speed broadband facility. LCD all are also provided in some classrooms for better understanding of visuals

Computer Lab:



The University has full-fledged computer facility. Two Xeon servers along with 50 workstations are installed. It provides 1Gbps internet connection used by faculty and students. High speed printing and scanning facility is also provided. All requisite software is available providing a conducive environment for software development and course practicals.

Hostel Facilities: The University provides separate hostel facilities for boys and girls. The hostels have all modern amenities like television, washing machine, and refrigerator so students feel like at home and devote all their time to study.

Scholarship Facilities: The University provides scholarships to deserving students under merit cum means and merit category. In merit cum means scholarship category meritorious students who have poor economic background are considered and semester toppers are given scholarship under merit category.

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The university boasts of fully equipped library with around 1000 books and journals are procured every month. Magazines giving latest insight into the information technology arena are also subscribed like chip, Linux for you, Pc today etc. University has collaboration with UGC inflibnet consortium. This gives them additional facility to access more than 3000 journals on internet.

Laboratory :



A hi-tech lab for Dept. of Environment Sciences and Biotechnology has been designed. The lab has all necessary equipments for carrying out experiments. Experiments on regarding waste management of ganga basin in collaboration with Ehime University, Japan has been carried out recently.

Sports Facilities :

Cricket and Badminton tournaments are organized every year and chess tournament has been organized this year



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STUDENT ACTIVITIES

The students, in order to pursue their interests in a variety of domains, have formed following societies: Society for Publication and Communication Skills Development, Society for Literary Activities, and Computer Games Society. Apart from this, the students have organized various intra-institute events in such a small time, most notable of which are Online Quiz, department seminar, Technical Awareness Workshop for the students of other departments and University Cricket & Badminton Tournaments.

To enhance the students' confidence, leadership qualities, attitude, management communication and creative skills, the institute encourages a variety of activities and requires the election of student representatives as members of various councils.

Industrial and Educational Visits

The students are constantly exposed to practical industrial experiences. Apart from industrial internship, which is a mandatory part of the curriculum, industrial and educational visits are periodically organized for the students so that they get acclimatized to the industrial environment, the working of engineering plants, and simultaneously getting to know the latest trends and practices observed in the industry. In recent time all students of CS Department visited C-DAC Pune, FTI Pune, summer internship students visited IIIT Allahabad and University of Hyderabad.



Design Competitions

The students are supported by the institute to actively take part in various design competitions related to their areas of interest. Faculty members also actively support the students as their supervisors in these projects. Some of the well-known competitions in which students have actively participated are Speech Competitions, Poster making, and Quiz Completions.

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Course Structure & Syllabus of M.Sc. (Computer Science)



First Semester			Second Semester		
Course Code	Courses	Credits	Course Code	Courses	Credits
M503	Discrete Mathematics	4	CS526	Database Management Systems	4
ST529	Statistical Computing	3	CS527	Operating Systems	4
S501	Programming in C	4	CS528	Object Oriented Programming	4
CS502	Computer Organization & Architecture	4	CS529	Software Engineering	4
CS503	Data Structure & Algorithms	4	CS530	Theory of Computation	4
CS504	Lab-I	2	CS531	Lab-II	2
		Total Credits			Total Credits
		21			22

Third Semester			Fourth Semester		
Course Code	Courses	Credits	Course Code	Courses	Credits
CS601	Data Communication & Computer Networks	4	CS603	Modeling and simulation	4
CS602	Digital Signal Processing	4	CS604-663	Elective-II	4
CS632	Computer Graphics	4	CS604-663	Elective-III	4
CS633	Artificial Intelligence	4	CS692	Master's Thesis	4
CS604-663	Elective- I	4			Total Credits
CS635	Lab-III	2			16
CS691	Master's Thesis (to be continued in IV th Semester) Seminar (Topics in Computational Sciences: Research Methodology)	2			
		Total Credits			
		24			

List of Electives for M.Sc. Computer Science

Course Code	Courses	Credits	Course Code	Courses	Credits
CS604	Pattern Recognition	4	CS652	New Paradigm in Computing	4
CS605	Ubiquitous and pervasive Computing	4	CS653	Computational Biology	4
CS606	Wireless networks	4	CS654	Semantic Web	4
CS607	Distributed computing	4	CS655	Multi Modal Biometrics	4
CS608	Data and web mining	4	CS656	Soft Computing	4
CS609	Embedded system	4	CS657	Financial Data Analysis and Computing	4
CS610	Real time systems	4	CS658	Information Retrieval	4
CS611	Compiler Design	4	CS659	Natural language Processing	4
CS612	Speech Processing and Recognition	4	CS660	Computational Geometry	4
CS613	Applied Stochastic Process	4	CS661	Mobile Computing	4
CS614	Cryptography	4	CS662	Social Networks	4
CS615	Image Processing	4	CS663	Computational Neuroscience	4
CS616	Information Theory	4			



Core Faculty



Dr. Girish Kumar Singh

Assistant Professor
Department of Computer Science,
School of Mathematics, Statistics and Computer Science
Email : gksingh@cub.ac.in
PhD (Computer Science, Jawaharlal Nehru University)
Areas of interest: Data Mining, Artificial Intelligence,
Distributed Computing.



Mr. Nemi Chandra Rathore

Assistant Professor
Department of Computer Science,
School of Mathematics, Statistics and Computer Science
Email : nemichandra@cub.ac.in
M Tech (Information Technology, IIIT Allahabad)
Areas of interest: Computer networks, operating system,
DBMS, Theory of Computation, and Data Structures & Algorithms.



Mrs. Smita Roy

Assistant Professor
Department of Computer Science,
School of Mathematics, Statistics and Computer Science
Email : smitaroy@cub.ac.in
M Tech (Computer Science and Engineering, NIT Durgapur)
Areas of interest: Computer Organization and architecture,
Operating system, Theory of Computation,
Database Management system.

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Guest/Visiting Faculty



Dr. D. K. Singh
HOD
Department of Information Technology,
National Institute of Technology, Patna
dksingh_bit@yahoo.com



Dr. Vivek Kumar Jain
PhD (Mathematics, University of Allahabad)
Assistant Professor, Department of Mathematics,
School of Mathematics, Statistics and Computer Science
vkj@cub.ac.in; jaijinedra@gmail.com



Dr. Rajiv Kumar Singh
PhD (Magnetohydrodynamics, BHU)
Assistant Professor, Department of Mathematics,
School of Mathematics, Statistics and Computer Science.
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Dr. Bal Gangadhar Prasad
HOD
Department of Mathematics,
Bihar National College,
Patna University, Patna.



Dr. Rajesh Pratap Singh
PhD (Mathematics, IIT Guwahati)
Assistant Professor, Department of Mathematics,
School of Mathematics, Statistics and Computer Science
rpsingh@cub.ac.in , r.praataap@gmail.com



Sanjeev Bakshi
MSc (Statistics, Kurukshetra University)
Assistant Professor, Department of Statistics,
School of Mathematics, Statistics and Computer Science
sanjeevbakshi@cub.ac.in, bakshisanjeev@gmail.com



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Students' Profiles Batch 2010-2012



Rikki Raj

Education: B.Sc.(Computer Application)

Email: rikki@cub.ac.in, smart_rikki@yahoo.co.in,

Thesis: Statistical Data Mining

Achievement:

1. Participated & hosted **19th International Conference on Interdisciplinary Mathematical & Statistical Techniques** in Dec-2010 in the Department of statistics, Patna University, Patna.
2. Participated as the representative of Munger District, two times in **Sixth & Seventh State Level National Child Science Congress**, year 1998 & 1999 at Bokaro Steel City & Patna.
3. Winner of State level Debate Competition Organized by **Bihar State Literacy Mission** in year 2000

Technical Skill:

Operating System	- MS-DOS, Windows XP, Windows 7, Linux
Office Automation	- MS Word , MS Excel, MS Power Point, MS Access
DBMS/RDBMS	- FoxPro, Cobol, Oracle
Web Scripting Languages	- HTML, JavaScript, XML
Language	- C, C++, Visual Basic, JAVA.
Statistical Package	- Working Knowledge of Minitab & SPSS.



Saurav De

Email: saurav@cub.ac.in

Contact No : 09430034256

Education: BCA

Project/Thesis: Quantitative Association in Data Mining.

Achievement: Secured 94 percentile in NCST (National competence in Software technology) at I-level

Technical Skills:

Programming Languages:	C, C++, JAVA, VB 6.0
DBMS:	Oracle 11g, MySql 5.1
Web Scripting Languages:	HTML, Javascript, PHP 5.3
Shell Scripting Languages:	Perl 5.4, Linux Shell scripting
Operating System:	Windows 7, Linux (distribution: OpenSuse Linux 12.1)
IDE Used:	Netbeans 7.1, Eclipse Classic
Others:	Matlab 7

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Rajesh Kumar

Email: rajesh.kumar@cub.ac.in , narayansinghnilesh54@gmail.com

Contact No : 09534406466, **Education:** BCA

Project/Thesis: Web Mining

Achievement: Secured 64 percentile in NCST (National competence in Software technology) at I-level

Technical Skills:

Programming Languages :	C, C++, JAVA, VB 6
DBMS :	Oracle 11g, MySQL 5.1
Web Scripting Languages :	HTML, JavaScript, PHP 5.3
Shell Scripting Languages :	Perl 5.4, Linux Shell scripting
Operating System :	Windows 7, Linux (distribution: Open Suse Linux 12.1)
IDE Used :	Netbeans 7.1, Eclipse Classic



Aashutosh Kumar

Education: BCA

Email: aashutosh@cub.ac.in, **Contact No:** +918603890981

Thesis: Fault tolerance and security issues in cloud computing

Achievement: One and half months (from June 2, 2011 to July 15, 2011) project works for designing official website of professor A.K.Kapoor (<http://webphys.uohyd.ernet.in/~kapoor>), School of physics, University of Hyderabad. This website is aimed for conducting surveys and quiz, managing users and documents in digital formats. This website is designed with the help of Drupal 6.22.

Technical Skills:

Programming Languages :	C, C++, JAVA, VB 6
DBMS:	Oracle 11g, MySQL 5.1
Web Scripting Languages :	HTML, JavaScript, PHP 5.3
Shell Scripting Languages :	Perl 5.4, Linux Shell scripting
Operating System :	Windows 7, Linux (distribution: OpenSuse Linux 12.1)
IDE Used :	Netbeans 7.1, Eclipse Classi



Madhu Kumari

Education: B.Sc. (Hons.) Physics

Contact No: +919708326671, **Email:** madhu@cub.ac.in

Project: Call Centre Management System

Achievement: Designed website for Professor A.K.Kapoor, University of Hyderabad. (<http://webphys.uohyd.ernet.in/~kapoor>). The website is aimed for conducting Surveys, online quiz, & Managing documents in digital format

Technical Skills:

Programming Languages :	C, C++, JAVA
DBMS :	Oracle 11g, MySQL 5.1
Web Scripting Languages :	HTML, JavaScript, PHP 5.3
Shell Scripting Languages :	Linux Shell scripting
Operating System :	Windows 7, Linux (distribution: OpenSuse Linux 12.1)
Statistical Package :	Working Knowledge of Matlab, spss.



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Mamta Priya

Education: BCA

Email: mamata@cub.ac.in, priya.mamta89@gmail.com, Contact No: +919471487485

Project: Call Centre Management System

Technical Skills:

Programming Languages	:	C, C++
DBMS	:	MySQL 5.1
Web Programming	:	HTML
Operating System	:	Windows 7, Linux (distribution: OpenSuse Linux 12.1)
Others	:	Microsoft Visual Studio 6.0, Microsoft Office



Satya Prakash

Education: BCA

Email: satya@cub.ac.in, satya.prakash0988@gmail.com, Contact No: +918002544545

Project/Thesis:

Technical Skills:

Programming Languages	:	C
DBMS	:	MySQL 5.1
Web Programming	:	HTML
Operating System	:	Windows 7, Linux (distribution: OpenSuse Linux 12.1)
Others	:	Microsoft Visual Studio 6.0, Microsoft Office



Anshu Kumari

Education : B.Sc. (Computer Application)

Email : anshu@cub.ac.in, meanshuarun06@gmail.com

Project : Clinic Management System

Achievement : Designed Software For Market Basket Analysis Under Prof.O.P. Vyas At IITAllahabad

Technical Skills:

Programming Languages	:	C, C++, JAVA, VB 6
DBMS	:	Oracle 10g, MySQL 5.1
Web Scripting Languages	:	HTML, JavaScript
Shell Scripting Languages	:	Linux Shell scripting
Operating System	:	Windows 7, Linux (distribution: OpenSuse Linux 12.1)
Office Automation	:	Microsoft Office 2010
Statistical Package	:	Working Knowledge of Matlab & SPSS



Amit Kumar

Education: B.Sc (IT)

Contact No: +919798394744, Email: amit@cub.ac.in, guptaamit128@gmail.com

Project/Thesis: Android phone programming

Technical Skills:

Programming Languages:	C, C++, JAVA
DBMS:	MySQL ORACLE 8i
Web Programming:	HTML, ASP, XML, JavaScriptPhp.
Operating System:	Windows 7, Linux (distribution: OpenSuse Linux 12.1)
Others:	Microsoft Visual Studio 6.0, Microsoft Office

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Neha Kumari

Education: B.Sc.(Computer Application)
Contact No: +91947387477, **Email:** neha.pandey02@gmail.com
Project: College Examination Management System

Technical Skills:

Programming Languages : C, C++, JAVA, VB 6, Perl 5.4, Linux Shell script.
DBMS : Oracle 11g, MySQL 5.1,
Web Scripting Languages : HTML, JavaScript, PHP 5.3
Operating System : Windows 7, Linux (distribution: OpenSuse Linux 12.1,ubuntu etc.)
Others : Microsoft Visual Studio 2010,Microsoft Office Professional Plus 2010
Statistical Package : Working Knowledge of Matlab, spss.



Navin Kumar

Education: B.Sc.(Computer Application)
Email: navin@cub.ac.in , coolnavin.shahi@gmail.com
Contact No. +919798164853
Project : College Examination Management System

Technical Skills:

Programming Languages : C, C++, JAVA, VB 6.0
DBMS : Oracle 10g, MySQL 5.1
Web Scripting Languages : HTML, JavaScript
Shell Scripting Languages : Linux Shell scripting
Operating System : Windows 7, Linux (distribution:OpenSuse Linux 12.1)
Office Automation : Microsoft Office 2010
Statistical Package : Working Knowledge of Matlab & SPSS



Shalvee Sinha

Education : B.Sc. (Computer Application)
Contact No. : +919835220333, **Email:** shalvee@cub.ac.in, shalveesinha1@gmail.com
Project : Clinic Management System
Achievement : Designed software for Dr. O.P. Vyas ,Indian Institute of Information Technology, Allahabad

Technical Skills:

Operating System MS-DOS, Windows' XP, Windows-7, Linux
Office Automation MS. Office 2007.
DBMS/RDBMS FoxPro, Cobol, Oracle 8i
Web Scripting Languages HTML, JavaScript.
Language C, C++, Visual Basic, JAVA.
Statistical Package Working Knowledge of Matlab, spss.



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Divya Kumari

Education: B.Sc. (Hons.) Physics
Email: divya.kumari@cub.ac.in, divya.24aug@gmail.com,
Contact No.: +919386893983
Thesis: Data Mining (Online Clustering)

Achievement:

1. Research Project on "Structural and Magnetic studies of Lanthanum substituted Barium Hexaferrite Nanoparticles."
2. Research project on "Synthesis and characterization of ferroelectric lead material."
3. Designed software for Dr.O.P.Vyas, Indian Institute of Information, Allahabad.

Technical Skills:

Operating System : Windows-7, Linux
Office Automation : MS Office 2007
DBMS/RDBMS : MySQL
Language : C, C++, Visual Basic, JAVA, Perl.
Statistical Package : Working Knowledge of Matlab, latex



Soma Roy Choudhary

Education: B.Sc (Hons.) Physics,
Email: soma@cub.ac.in, roy.soma72@gmail.com
Contact no: +917870822260,
Thesis: Granular Computing

Achievement: Designed website for Professor A.K. Kapoor, University of Hyderabad.

(<http://webphys.uohyd.ernet.in/~kapoor>). The website is aimed at performing

- Conducting Surveys
- Online quiz

Managing documents in digital format

Technical Skills:

Programming Languages : C, C++, JAVA
DBMS : Oracle 11g, MySQL 5.1
Web Scripting Languages : HTML, JavaScript, PHP 5.3
Shell Scripting Languages : Perl 5.4, Linux Shell scripting
Operating System : Windows 7, Linux (distribution: OpenSuse Linux 12.1)



Aditya Kumar

Education: B.Sc (Computer Application)
Email: aditya@cub.ac.in, adt.vis@gmail.com
Contact No: +919507222466
Project: Android Programming

Technical Skills:

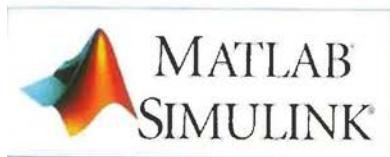
Programming Languages: C, C++, JAVA
DBMS: Oracle 11g, MySQL 5.1
Web Programming: HTML, JavaScript, PHP 5.3
Operating System: Windows 7, Linux (distribution: OpenSuse Linux 12.1)
IDE Used: Eclipse
Others: Microsoft Visual Studio 2010, Microsoft Office

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ICT INFRASTRUCTURE OF THE UNIVERSITY

Introduction

IT section is backbone of the University which provides various Computing and Network services through Information & Communication Technologies (ICT) for proper functioning of academic activities.



University has developed a dedicated computer lab with Internet facility. The Computer Lab is providing a Central Computing Facility to the students, teachers and staff of the University for their Assignments, Projects, Dissertation and other Research related work.

Computer system has been enriched by adding the following software, hardware and facilities: MATLAB, (PASW)-SPSS, Linux, Adobe Master Collection CS5, Windows 7 Professional, MS-windows Server2008 R2, MS-Visual Studio 2010, Quick Heal Admin console etc.

Internet & Intranet

Internet connectivity is provided under the scheme of National Mission on Education through Information and Communication Technology (NME-ICT) Project of the Government of India. All computers are connected with 100 mbps Internet connectivity. In coming months, bandwidth of Internet connection will go up to 1 Gbps. The intranet network, consisting of gigabyte Ethernet and OFC backbone provides connectivity to departments/ Centres, library, class rooms and administration. World class networking product of CISCO has been installed in campus network to provide stable and hassle free computing.



A-View Learning Tool (A-View)

Under the NME-ICT scheme, A-VIEW Classroom has been providing opportunity to connect several universities together and creates virtual world for students. It also acts as a Knowledge Café where students can discuss /chat about the lecture after the live class.



Website

A fully functional Website of the university has been developed. It is maintained and updated regularly. URL of website is www.cub.ac.in.

E-mail Facility

The University has powerful email system with group mail of student and faculty. Email id at university website is provided to each student.



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Technical Assistant (Computer)



Mr. Ashok

IT Section
Central University of Bihar
Email: ashok@cub.ac.in



Mr. P. Swami

Technical Assistant (Computer)
IT Section
Central University of Bihar
Email: pr.swami@cub.ac.in





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Placement Participation Form

Name of the organization.....
 Job title of the vacancy.....
 No. of vacancies.....
 Location details.....
 Name of contact person.....
 Telephone (Office)..... (Residence).....
 Address of communication



Job Details

Functional Area	Location of Posting	Tentative No. of Offers

Job Description (in brief).....
 Training Duration (if any).....
 Please suggest a suitable date(s)

Mode of Selection

Written Test	Group Discussion	Interview	Others

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Placement Guidelines:

1. The university may provide local hospitality and conveyance, however no TA will be paid to the selection team.
2. Minimum package has to be disclosed before the selection process.
3. The employer will be required to disclose all terms and conditions (including the duration between selection and joining) before selection process.
4. Region, religion and ^{caste}cast related questions must not be raised during the selection process.
5. The university will not play any role in case of dispute between employer and employee after recruitment.

For further details contact:

PLACEMENT TEAM 2011-2012

Faculty-in-charge

Dr. Girish Kumar Singh
Department of Computer Science
Central University of Bihar
Ph: +917488568595
Email: gkrsingh@cub.ac.in

Training & Placement In-charge

Dr. Ram Kumar
Central University of Bihar
Phone/Fax: 0612/2226537
Email: placements@cub.ac.in

Student Representatives: M.Sc. (Computer Science)

Mr. Saurav De

E-mail: saurav@cub.ac.in
Cell: +919430034256

Mr. Rajesh Kumar

Email: rajesh.kumar@cub.ac.in
Cell: +919534406466

Ms. Divya Kumari

Email: divya.kumari@cub.ac.in
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**CENTRE FOR
ENVIRONMENTAL SCIENCES**
Integrity with sustainability



Central University of Bihar

School of Earth, Biological and Environmental Sciences
Central University of Bihar
Patna – 800014
www.cub.ac.in

CUB PLACEMENT

CUB Placement Brochure, 2013



Faculty and students (2011-13 batch) of Centre for Environmental Sciences



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M E S S A G E

Vice Chancellor Prof. Janak Pandey



The Central University of Bihar, founded in 2009 by the Act of Parliament, is a national institution of excellence for teaching, research and applications of knowledge for the improvement of social and economic conditions and well-being of the people, their intellectual, academic, and cultural development. The University presently located in Patna made a modest beginning in 2009-10 by launching of a Master programme in Development Studies. The University added in the academic session 2010-11, five Master's programmes in Biotechnology, Computer Science, Environmental Science, Mathematics, and Statistics, in 2011-12 Psychology, Communication & Media Studies and Bioinformatics and in 2012-13 Economics, Computer Science (M.Tech.), Life Science, Political Science & International Relations, Sociology, Hindi and English.

The Centre of Environmental Sciences under the School of Earth, Biological and Environmental Sciences launched its - two years (four- semesters) Master programme in 2010 to provide students intensive interdisciplinary sound theoretical and practical knowledge and training to prepare them as competent researchers and practitioners. I am confident that our graduating students this year 2013 are capable to study, analyse and seek solutions to environmental problems. A detailed course structure and other requirements for M.Sc. in Environmental Science are presented in the brochure. In addition to class room and laboratory based courses, the students have also been to fields and have experience of internship and training.

I am certain that they would serve efficiently and competently the role assigned to them by the organizations which they join. I invite Organizations to visit the campus for interactions with the students. I wish good luck to graduating students and am sure they will succeed in their placement.



(Janak Pandey)



Dr. Ram Kumar

Head, Centre for
Environmental Sciences
& In-charge, The Career
Counselling -cum -Placement Cell,

M
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The Central University of Bihar, established in February 2009 by the Act of Parliament, launched Master program in Environmental Science in 2010. The Master program in Environmental Science at CUB is an inventive program. The course structure and curriculum is developed by a team of internationally acclaimed and distinguished Professors of Environmental Science of this country. The students are imparted the advanced knowledge in various disciplines of Environmental Science for example Environmental Biology, Ecology, Environmental Chemistry, Environmental Geosciences, Statistical Methods and Computer Applications, Atmospheric Sciences and Climate change, Hydrology and Water Resources, Energy Resources and Management, Environmental Economics, Environmental Policies, Laws and Ethics, Environmental Impact Assessment and Environmental Management and Planning, Water Pollution and Control, Air Pollution and Control, Remote Sensing and GIS, Environmental Biotechnology, besides a basket of various elective courses, by our competent faculties.

A batch of 16 students going to earn their post graduate degree, have got hands-on experience of working in the field and laboratory in different areas such as water quality analysis, wastewater treatments, study of impact of climate change, solid waste management, analysis of toxics in soil and water apart from advanced quantitative methods in Ecology, Microbiology and Environmental Chemistry. These students are directly engaged in solving several issues related to environment to complete their Master project with a taught course, followed by primary data generation in the labs, data processing and finally thesis writing. These exercises help them to become an independent quality researcher.

They are in a position to take up any challenge at their work field. They are competent to join any world class University for higher education and are trained to undertake high quality research. They are also very competent to join any agency working in the field of Environment after completing their Master.

I am confident that they will serve professionally and do the job assigned to them by their employer. On behalf of the Career Counseling -cum -Placement Cell, I am pleased to invite your esteemed organization for the placement of our students of M Sc. Environmental Science at the Central University of Bihar


(Ram Kumar)



CUB Placement Brochure, 2013

ABOUT THE UNIVERSITY

The Central University of Bihar (CUB) is established by an Act of the Parliament called the Central Universities Act, 2009. As stated in the Section 5 of the Act, the objective of the university is:

"... to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit; to make special provisions for integrated course in humanities, social science and technology in its educational programmes; to take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and researches; to educate and train manpower for the development of the country; to establish linkages with industries for the promotion of science and technology; and to pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development."

The University continuously endeavours to evolve policies and programmes which will make it a distinct addition to the national resources for promotion of higher education and research.

The Programme

The two years Master's programme in Environmental Science is an intensive, theoretically and practically oriented multi-disciplinary programme, which aims to equip the students with critical, analytical and practical skills that will be of use in their future career, either as environmental professionals or academicians/researcher. The course provides opportunities to students to critically examine a relevant body of knowledge (theoretical perspectives and approaches) and current debates, and learn research methods (qualitative and quantitative).

The aim of the PG Programme in Environmental Science is to provide the student with the knowledge and skills necessary to contribute, directly or indirectly, to the conservation and prudent use of natural resources as well as to mitigate environmental degradation for the benefit of the society. After successful completion of the course, the students are expected to develop the capacity to study, analyse and seek solution to environmental problems including development of policies and strategies for environmental planning.

The Programme prepares students for professional careers in the areas of environmental consultancy, research, compliances, initiatives, management both in governmental and non-governmental organizations. The internship directly related to their studies provides an opportunity to integrate theory with practice. This component of the course allows students to inculcate scientific knowledge and formulate strategies for sustainable use of natural resources as well as to mitigate environmental degradations. The centre is intended to highlight regional and global environment research issue.

Major Thrusts of the Programme are:

- To study issue related to exploitation of natural resources, the impacts of human activities thereon and the implications of environmental degradation on human development.
- Analytical Tool in Environmental Science: basic tool for analysing environmental problems, such as data collection and analysis and modelling of air, water, soil and biological system.

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- The Human Dimension of Environmental Change: to understand the determinants of the growth of population and economies, and how this growth result in demand for natural resources, leading to scarcity, pollution and risk for human health.
- To study and investigate geological, biological, chemical processes and to introduce the concept of pollution in air, water and soil in relation to chemical changes in them.
- Engage with National and International Environmental agencies, Academic Institutions, Research Institutions, Non-government organizations, policy thinks tanks, corporate organizations and research and training institutions.

Academic Facilities

The University has offered conducive environment, adequate infrastructure and innovative pedagogies to nurture the students who have joined the University.

Environmental Science Laboratory

The Centre for Environmental Science established a new laboratory for the M.Sc. Environmental Science students and for academic and research purposes. The laboratory is fully equipped with



latest scientific instruments like UV-Visible Spectrophotometer, Reparable Dust Sampler, Muffle Furnace, Flame photometer, Laminar Air Flow, Fluorescent Microscope, Imaging system, PCR thermal cycler, Centrifuge, Millipore, Microscopes, Automated shaker, Incubator, Laminarair flow etc. Also for environmental modelling the University is providing access to many latest models and time to time exposure with GIS tools. The present facility is being actively used to study the

local/ regional environmental problems. The laboratory is continuously being upgraded and sophisticated instruments are being added to study air quality monitoring, study of meteorological parameters, heavy metals, microbiological aspects of the environment and others.

Library

The CUB library has extensively used the modern means of communication in order to serve its users in a better way. The library has been completely automated with web based library automation software. The library has got a vast collection of good number of copies of quality books and it also subscribes a series of most informative and current, top print journals both national and international. Above all it also provides access to more than 4,000 e-journals,

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from over 10 international publishers like Springer, Science Direct, JSTOR, Taylor & Francis, Wiley-Blackwell, Oxford, Cambridge, IEEE Explore, Sage HSS Online etc. and online database of MathSciNet, Indiatat.com and JCCC@UGC-Infonet.

Central Computing Facility

Hi-tech computer lab is providing a central computing facility to students, faculty and staffs of the university. It is equipped with internet and intranet facilities, accessible anytime.



Academic activities

Special Interactive lecture Series:

The Centre organizes some special lectures of renowned experts of India and abroad for multidimensional development of students. Some major lectures of the academic session are-

Earthworms (The Environmental Engineers), Vermiculture Technologies for Environmental Management & Resource Development : Dr. Rajeev Kumar Sinha, Senior Lecturer, Griffith School of Engineering, Griffith University, Brisbane, Australia. 10th January, 2012



Plants- the problems they face and the ways they solve them (plant-plant-animal interactions): Prof. T.R. Rao, Visiting Professor, IISER Mohali, 19th October, 2012.

The Tiger-Gentleman of Jungle: Dr. Fayaz A. Khudsar, Scientist In-charge, Biodiversity Parks Programs, Centre for Environmental Management of Degraded Ecosystems (CEMDE), School of Environmental Studies, University of Delhi, 2nd November, 2012.



Current trends in Biology- Teaching and Research Career Options: Prof. K. Muralidhar, Dept. of Zoology, University of Delhi, 27th February, 2013.

Role Of Indigenous Knowledge of Society In Conservation And Restoration Of River: Rajendra Singh, Magsaysay Award winner and member of National Ganga River Basin Authority (NGRBA). He

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emphasized that even without external support we can conserve our natural resources by motivating and working with locals.

FIELD VISIT: Expanding the horizon...

Sultanpur National Park (Haryana); November 2011

The student visited this haven of birds where they learnt about the study of migration pattern of birds and their other behavioural patterns. They were also exposed to the conservation methods that were being practiced here to preserve the threatened species of birds.

Indian Agricultural Research Institute, New Delhi; November 2011

The students visited to Environmental Science laboratory and Indian Phytotron laboratory. Students were exposed to the highly equipped lab and learnt some skills and techniques.

Yamuna Biodiversity Park, New Delhi; November 2011

The students were exposed to the field realities as part of their course curricula which help them relate their learning to the contemporary issues and realities. Students visited YBP to study the local ecological conditions, floral and faunal diversity. They learnt about the conservation of thousands of species of plants and animals and how a salty barren land can be converted into a full forest- an application of restoration ecology.

SUMMER INTERNSHIP: Interacting with the real world...

The summer internship is a part of the course framework, which is for a period of 6 to 8 weeks, in addition to the regular coursework and researches. Here the students expand their wings and turn from books and classrooms to the practicality and fieldworks, the integration of theory with the practice. They get the first chance to exhibit their capabilities outside their university.



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All over the country students get dispersed and engaged in different research and training institutes, reputed universities, organizations, consultancies and NGOs etc. It provides the opportunity to enhance their skills, develop new ideas, inculcate innovative thinking and understand the on-going processes and to put all of these into practice for understanding the major as well as minor, local, regional and global environmental issues and to seek for the best solution to them by sustainable planning, implementation and researches for the nature.

List of the Institutions/ Universities/ Organizations, where students went for summer internship

Jawaharlal Nehru University (JNU), New Delhi.	Wildlife Institute of India (WII), Dehradun.
Centre for Environment Education (CEE), Ahmadabad.	Rajendra Memorial Research Institute (RMRI), Patna.
State Pollution Control Board, Patna.	Environment Planning & Coordination Organization (EPCO), M.P.
Indian Council of Agricultural Research (ICAR-RCER), Patna.	University of Delhi, New Delhi.
Yamuna Biodiversity Park, Delhi.	India Meteorological Department, Patna

PEDAGOGY: Enlightening one and all...

The faculty members possess expertise in wide range of disciplines from ecology, meteorology, geochemistry, environmental management and policies, environmental biotechnology and several other fields. The teaching includes the correct use of instructive strategies while interacting with the students. In correlation with those instructive strategies the instructor's own philosophical beliefs of instruction are harboured and governed by the pupil's background knowledge and experience, situation, and environment. In addition to the regular teaching and presentation there are many other ways adopted, that makes the studies more lively and fruitful.





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FACULTY

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List of Courses in M.Sc. Environmental Science (80 Credits)

Course code	Course Title	Credits
Semester -I		
ESC 501	Introduction to Ecology and Environmental Sciences	4
ESC 502	Statistical Methods and Computer Applications I	2
ESC 503	Social and Developmental perspectives	2
ESC 504	Lab/Field Studies and Report Writing	3
ESC 526	Environmental Chemistry	4
ESC 527	Environmental Geosciences	3
		Total Credits 18
Semester -II		
ESC 506	Instrumentation and Research Methodology	4
ESC 528	Atmospheric Sciences and Climate Change	4
ESC 505	Statistical Methods and Computer Applications II	2
ESC 530	Energy Resources Management	4
ESC 531	Environmental Policies, Laws and Ethics	4
ESC 536	Practical	4
		Total Credits 22
ESC 600	Summer internship	2
Semester -III		
ESC 606	Remote Sensing and GIS	4
ESC 532	Environmental Impact Assessment (EIA), Cumulative Impact Assessment (CIA) and Risk Assessment (RA)	2
ESC 533	Water Pollution and Control	3
ESC 534	Air Pollution and Control	3
ESC 691	Dissertation Related Work	4
ESC ***	Any elective course (s) from the given list	4
Total Credits		20
Semester - IV		
ESC 535	Environmental Biotechnology	4
ESC ***	Select any electives course (s) from the given list	8
ESC 692	Dissertation	6
		Total credits 18



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Elective Basket		
Course code	Course Title	Credits
ESC 505	Environmental Economics	2
ESC 601	River and Wetland Ecosystems	4
ESC 602	Biodiversity and Conservation Biology	4
ESC 603	Waste Disposal and Soil Health	2
ESC 604	Eco-toxicology and Environmental Health	4
ESC 605	Restoration Ecology	2
ESC 607	Systems Analysis and Environmental Modelling	2
ESC 608	Risk Assessment and Disaster Management	2
ESC 609	Bio-geo chemical cycles	2

MASTER DISSERTATION: Strengthening the skills...

The master thesis based on the dissertation work performed by the students during the course work, relies on the extension of project on a topic of their interest. It facilitates to utilize the analytical and empirical skills acquired from different fields, to demonstrate students' capacity to analyse appropriate theory and empirical evidence in a structured manner. It comprise of the literature reviews, presentations as well as the rigorous field and laboratory works. The major areas explored by the students are enlisted below.

Glimpse of Area Explored

1. Bioremediation
2. Planktology of Polluted Water
3. Ecological Study of Wetlands
4. Geochemical Assessment of Water and Sediments
5. Soil Microbiology
6. Soil Contamination – Physico-Chemical Analysis of Soil
7. Meteorology- Long-Term Weather Trend Analysis
8. River Hydrology
9. Solid Waste Management
10. Biomedical Waste Management
11. Waste Water Treatment

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Environmentalists: The Warriors for the Planet...

Alvia Aslam

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Summer Internship/ Organization : A Synthesis On Biology And Conservation Of Water birds With A Case Study On Time Activity Budget Of Water birds In WII Campus" / Wildlife Institute of India, Dehradun.
Dissertation Work : Soil and water characterization at solid waste dumping yard adjacent to Moinul Haque Stadium, Patna.
Areas of Interest :

- Soil and Water analysis
- Restoration Ecology
- Ecotoxicology
- Disaster Management



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Summer Internship/ Organization : A Synthesis On Biology And Conservation Of Water birds With A Case Study On Time Activity Budget Of Water birds In WII Campus" / Wildlife Institute of India, Dehradun.
Dissertation Work : Municipal solid waste management at Western Patna.
Areas of Interest :

- Soil and Water analysis
- Restoration Ecology
- Ecotoxicology
- Disaster Management



Ankita Jyoti

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Academic Background : B.Sc. (Hons.) Environmental Science, Patna Science College, Patna University, Patna.
Summer Internship/ Organization : Spatial and Temporal Distribution of Rhesus macaque In the Campus of Wild Life Institute of India. Wildlife Institute of Phosphorous removal from wastewater using vertical filter bed.
Dissertation Work :
Areas of Interest > EIA and EMP
> Waste Water Engineering
> Bioremediation
> Climate Change and its Impact



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Academic Background : B.Sc. (Hons.) Chemistry, IGNOU, Patna.
Summer Internship/ Organization : Characterization of Bacterium Isolated from HCH Contaminated Site and Sequencing its key gene Involved in HCH Degradation. / Molecular Biology Lab, University of Delhi, Delhi.
Dissertation Work : Effect of Selected Pharmaceutical Wastes on the Demographic Parameters and Biochemical Profile of Selected Zooplankton.
Areas of Interest > Climate change and its Impacts
> Solid Waste Management
> EIA and EMP
> Natural Resources Management



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Summer Internship/ Organization : Impact of Climate Change on Rice Productivity in Patna region by using Crop Simulation Model. / Indian Council of Agricultural Research- Research Complex for Eastern Region (ICAR-RCER), Patna.
Dissertation Work : Ecological Assessment of Wetlands in Patna using Aquatic Macrophytes.
Areas of Interest > EIA and EMP
> GIS Tools
> Environmental Geosciences
> Climate change and its Impacts

Diwakar Prakash



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Summer Internship/ Organization : Nesting ecology of Streaked Weaver bird. / Yamuna Biodiversity Park Wazirabad, Delhi.
Dissertation Work : Spatio-temporal patterns of microbial community structure and investigation of bacterivorous organisms in the River Ganga.
Areas of Interest > Microbial Ecology in fresh water > Ecology of Plankton
> EIA and EMP > Biodiversity
> Conservation and Assessment. > GIS Tools
> Environmental Geosciences > Climate change and its Impacts
> Environmental modeling

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Academic Background : B.Sc. (Hons.) Botany, Patna Science College, Patna University, Patna.
Summer Internship/ Organization : Hydro geochemical Characteristics of groundwater Gorakhpur District, Uttar Pradesh, India. / Jawaharlal Lal Nehru University
Dissertation Work : Hydro geochemical Characteristics of Water of Kabar Lake.
Areas of Interest ➤ Hydro geochemistry of Water.
➤ Conservation of Biological Diversity of earth specially floral world.
➤ Providing awareness to common mass regarding the conservation and reuse of resources to achieve sustain ability.
➤ Climate change and its impact on environment.

Om Kumar



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Academic Background : B.Sc. (Hons.) Environmental Science, Patna Science College, Patna University, Patna.
Summer Internship/ Organization : "Trends of temperature and precipitation over Patna city" / Meteorological Department
Dissertation Work : Trends of Precipitation and sediment load in the Ganga river basin.
Areas of Interest ➤ Climate change and its Impacts
➤ Environmental Impact Assessment
➤ Disaster Management
➤ Remote sensing and GIS

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Rahul Pal

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Academic Background : B.Sc. (Hons.) Environment and Water Management, A.N. College, Patna, Magadh University, Bodh Gaya..
Summer Internship/ Organization : Socio Environmental Impact of Resource Conservation Agro Machinery (A case study) / Indian Council of Agricultural Research- Research Complex for Eastern Region (ICAR-RCER), Patna..
Dissertation Work : Quantification and characterization of municipal solid wastes in eastern part of Patna.
Areas of Interest ➤ Solid Waste Management
➤ Disaster Management
➤ Climate change and its Impact
➤ EIA and Environmental laws
➤ Environmental Geography



Rajni Kumari

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Academic Background : B.Sc. (Hons.) Biotechnology, Zakir Hussain College, Sikkim Manipal University.
Summer Internship/ Organization : Gene cloning of Leishmania Donovanii / Rajendra Memorial Research Institute of Medical Sciences (RMRIMS), Patna.
Dissertation Work : Ecological Assessment of Wetlands in Patna using Aquatic Macrophytes.
Areas of Interest ➤ Environmental Biotechnology
➤ Environmental Monitoring
➤ Risk Assessment and Disaster Management
➤ Climate change and its Impacts



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Academic Background	:	B.Sc. (Hons.) Zoology, Patna Women's College, Patna University, Patna.
Summer Internship/ Organization	:	A review on Non Detrimental Findings (NDF) of CITES in Indian context: Challenges and way forward. / Wildlife Institute of India, Dehradun.
Dissertation Work	:	Emergence of freshwater invertebrates from quiescent stages deposited in the surficial sediment of Kabar Tal, Begusarai, Bihar, India
Areas of Interest	➤	EIA and EMP
	➤	Solid Waste Management
	➤	Wastewater Treatment Technology
	➤	Biodiversity and its Conservation



Pranav Kumar

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Academic Background	:	B.Sc. (Hons.) Chemistry, Oriental College Patna, Magadh University, Bodh Gaya.
Summer Internship/ Organization	:	Molecular characterization of parents and F1 generation breeding materials of rice (<i>Oryza sativa</i> L.) for abiotic stress tolerance through SSR markers. / ICAR-RCER, Patna, India.
Dissertation Work	:	Assessment of biogeochemical processes of Kabar Tal sediment, Begusarai, Bihar, India.
Areas of Interest	➤	Geochemistry
	➤	Environmental Biotechnology
	➤	Risk assessment and Disaster management
	➤	Environmental Impact Assessment (EIA) and EMP.



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Academic Background : B.Sc. (Hons.) Zoology, M.L.S.M College, L.N.M.U, Darbhanga.
Summer Internship/ Organization : Phosphorous Dynamics of surface and core sediments of Shingle Island. /Jawaharlal Nehru University, New Delhi.
Dissertation Work : Soil and water characterization at solid waste dumping yard adjacent to R-block, Patna.
Areas of Interest > Ecotoxicology
> Environmental Biotechnology and Bioremediation
> Biodiversity Conservation and Conservation Biology
> Solid waste and Wastewater treatment

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Summer Internship/ Organization : Trends of temperature and precipitation over Purnea, Bihar. / India Meteorological Department, Patna, 2012.
Dissertation Work : Study of Extreme Trends of Temperature and Rainfall over North Bihar.
Areas of Interest > EIA and EMP
> GIS Tools
> Environmental Geosciences
> Climate change and its Impacts

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Academic Background	:	B.Sc. (Hons.) Botany, Patna Science College, Patna University, Patna.
Summer Internship/ Organization	:	"CDM, Gujarat Forest Department Project" Under the Industry Initiative Dept. of Centre for Environmental Education (CEE), Ahmedabad.
Dissertation Work	:	Ecological Assessment of Wetlands in Patna using Aquatic Macrophytes with particular focus on Trapanatans.
Areas of Interest	➤	Clean Development Mechanism in Forestry Projects
	➤	Environmental Impact Assessment
	➤	Disaster Management
	➤	Biodiversity Conservation and Ecological Restoration

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Academic Background	:	B. Sc.(Hons.) Biotechnology, College of Commerce, Patna, Magadh University, Bodh Gaya
Summer Internship/ Organization	:	A study and monitoring of Ganga water and ambient air quality of Patna. /Bihar State Pollution Control Board (BSPCB), Beltron Bhawan, Patna.
Dissertation Work	:	Biomedical waste management and practices in hospitals of Patna and Gaya.
Areas of Interest	➤	Solid Waste Management
	➤	Social and Developmental perspectives
	➤	Disaster Management
	➤	EIA & Environmental Laws.

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Academic Background	:	B.Sc. (Hons.) Environment and Water Management, A.N. College, Patna, Magadh University, Bodh Gaya.
Summer Internship/ Organization	:	"Biochemical Identification and Estimation of Gram- Negative Bacteria Present in Water & Sludge Near Intake Points of Upper Lake, Bhopal, Madhya Pradesh. /Environment Planning & Coordination Organization (EPCO), An Autonomous Body of Govt. of M.P.
Dissertation Work	:	Extreme Rainfall Analysis Over Kosi River Basin in Bihar.
Areas of Interest	➤	Climate Change.
	➤	Environment Impact Assessment
	➤	Biodiversity conservation
	➤	Environmental Pollution Monitoring and Control
	➤	Disaster Management





Placement Participation Form

Name of the organization:

Job title of the vacancy:

Number of vacancies:

Location details:

Name of the contact person:

Telephone (office): (Residence):

Address of communication:

.....

Job Details

Functional Area	Location of Posting	Tentative no. of offers

Job Description (in brief)

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.....

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.....

.....

Training Duration (if any)

.....

.....

Please suggest a suitable date(s).....

.....

Mode of Selection

Written Test	Group Discussion	Interview	Others



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Placement Guidelines

- The university may provide local hospitality and conveyance, however no TA will be paid to the selection team.
- Minimum package has to be disclosed before the selection process.
- The employer will be required to disclose all terms and conditions (including the duration between selection and joining) before selection process.
- Region, religion and cast related questions must not be raised during the selection process.
- The university will not play any role in case of dispute between employer and employee after recruitment.

For further details, please contact:

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SCHOOL OF SOCIAL SCIENCES AND POLICY
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Tomorrow's Development Pioneers




Centre for Development Studies
School of Social Sciences and Policy
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Message:

Message from the Vice Chancellor, Central University of Bihar



The Central University of Bihar, founded in 2009 by the Act of Parliament, is a national institution of excellence for teaching, research and applications of knowledge for the improvement of social and economic conditions and wellbeing of the people, their intellectual, academic, and cultural development. The University presently located in the premises of the Birla Institute of Technology- Patna made a modest beginning in 2009-10 by launching of a Master's Programme in Development Studies. The University is presently offering 16 Master courses and planning to launch M.Phil-Ph.D programmes from the forthcoming session (2013-14). The second batch of Development Studies students graduated last year and most of them are well placed in organizations like PRIA, Praxis, Aid et Action, SARD, Chetna Vikas, Innovators in Health, Taxila Society, FORCE, SkillPro, Nidanetc.

Development studies is a dynamic field concerned with the process of changes in social, economic, political, cultural and overall human development. India, particularly since its independence in 1947, continues to be in the forefront in planning and implementation of development programmes to remove social and economic inequalities.

There are only a few institutions in India training competent man power required by development sector and related national and international agencies. The demand for development professionals is increasing with enlarging dimensions of development activities. The Centre of Development Studies under the School of Social Sciences and Policy is making unique contributions by training competent development professionals. Our graduates of development studies have been rigorously trained to grapple with numerous development problems. I am certain that they would serve efficiently and competently the role assigned to them by the organizations which they join. I invite Organizations to visit the campus for interactions with the students. I wish good luck to graduating students and I am sure they will succeed in their placement.



(Janak Pandey)

Message:

Message from the Head, Centre for Development Studies, CUB



The Master of Arts in Development Studies launched by the University in 2009 is a distinctive programme in Indian higher education, as is its curriculum. It is an innovative programme certainly; the issues related to the development and underdevelopment discourse of the academic thinkers as well as policy planners and the social activists since decolonisation constitute components of the course structure. The students are encouraged to learn socio-economic, political and cultural development and also about institutions. They are encouraged to acquire skills through introspection and praxis when confronting issues in the real world. The students are trained in projects and research both theoretical and applied through contact hours with teachers in classroom and through field survey. The students get linked with intricate and contemporary issues in development in the course of preparation of the Thesis that begins in the 2nd semester with a taught course, followed up by primary data collection and processing in the 3rd semester, and finally the write-up in the 4th semester – make them competent to write research reports independently.

The students in the center get gradually mature to acquire the ability to pursue higher education. They are also competent to join appropriate jobs in all sectors related to development. I have no hesitation in stating that, given opportunities they would be able to exhibit their skills in organising, and even to take leadership in development programmes.

Bhaskar Majumder
Head, Centre for Development Studies



Vision and Mission of the University

We aim to bring social transformation by developing competent, committed and passionate development leaders. We believe in imparting practical and theoretical knowledge to produce bright and promising development professionals from the region.

The mission of the Centre for Development Studies Central University of Bihar is to ensure and appropriate development by promoting and increasing participation of people. The mission is also to promote equal participation and transparency in governance.

The University

The Central University of Bihar (CUB) was set up by an Act of the Parliament of India called the Central Universities Act, 2009 (25 of 2009). This Act which is available on University website at www.cub.ac.in provides basic legal framework for the University including its academics, administration and other aspects. The University is presently located at the premises of Birla Institute of Technology- Patna (Camp Office: BIT Campus, PO: B.V. College, Patna – 800014). Permanent location of the University is under consideration of the Central Government. The University made its beginning by establishing the **Centre of Development Studies** under the **School of Social Sciences and Policy** and launched a two years Master Programme in Development Studies in the academic session 2009-2010. The CUB Executive Council has approved 14 Schools of Studies representing various knowledge areas.

Objectives of the University

The objectives of the University shall be to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit; to make special provisions for integrated courses in humanities, social sciences, science and technology in its educational programmes; to take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research; to educate and train manpower for the development of the country; to establish linkages with industries for the promotion of science and technology; and to pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development.

Activities of Central University of Bihar during 2012-13

CUB emphasizes and ensures holistic development of its students to enable and prepare them for an innovative and transformational role in whatever field they study. The University offers opportunities to explore knowledge and relate them with the larger societal and environmental contexts. The activities, therefore, are carefully planned within and outside the class rooms.

Synergy of Theory and Practice

The course has three basic components-*academic, practicum and skill*. To achieve this there has been classroom interaction, field based activities and participation in the academic and outreach events. As part of the research methodology course, the students designed and conducted short studies using relevant social research tools at the rural and urban locations. This offered greater opportunity to the students to come face to face with the ground realities—social, cultural, economic and governance—covering rural and urban areas.

Classroom Contact Hours

The classroom and contact hours are interactive, group based, participative and self-evolving in which the faculty plays a facilitative and catalyzing role.

Out of Class Events

The out of classroom events and activities include- (1) Inspirational events including interaction with individuals with acknowledged credentials and achievements in their respective fields, (2) Exposure visits and face to face with realities, (3) Extracurricular activities like seminars, workshops, dialogues and lectures, (4) Cultural activities and (5) Games and sports. Over the period of last two years several important events were organized:

Exposures

Students from M.A. Development Studies visited AkhandJyoti eye hospital on February 11, 2012 at Mastichak an NGO working in rural areas of Chapra, 63 km from Patna, the capital city of Bihar. The NGO works in the field of girl's empowerment through imparting them technical education in eye care and education.



MADS students at AkhandJyoti Eye hospital for their field exposures at Mastichak.

AJEH treats more than 70% patients at free or highly subsidized rates and at the same time ensures high quality service delivery.



Learning SRI Method

Annual Development Meet

As part of the capacity enhancement and perspective building input, the University has planned 'Development Meet' annually. The event is supposed to bring professionals from academia, development activists and state and non-state agencies and help the students enrich themselves comprehensively. The first Meet provided great learning opportunity.



Development Meet is visualized as a dynamic forum of professionals representing diverse fields and backgrounds and (those of) MDS students. The meet was seen as an occasion of intensive and meaningful interactions. It was planned to achieve the followings:

- Exchange of learning and interaction with the practitioners, academics, bureaucrats, social entrepreneurs and the activists and appreciate each other's perspectives and views,
- Allow the students to present their learning and skills, as upcoming professionals, before experienced professionals, policy makers and activists and let them have the benefit of their considered feedback and suggestions,
- Allow the students to be evaluated for their orientation, skills and competencies and attract opportunities in the relevant fields of their preference and likings.



Master thesis presentation by students at the Annual Development meet, held during March 25-26, 2012.

Masters Programme in Development Studies (M.D.S) @ CUB

The Programme

The two year Masters programme in Development studies is an intensive, theoretically and practically oriented multi-disciplinary programme, which aims to equip the students with critical, analytical and practical skills that will be of use in their future careers, **either as academicians or development practitioners**. The course provides opportunities to students to critically examine a relevant body of knowledge (theoretical perspectives and approaches) and current debates, and learn research methods (qualitative and quantitative). Practicum, field-work and Internship experiences facilitate learning the process of development, policy planning and practice in the real life settings. The students are exposed to the complex process of development which requires consideration of the specifics of local situations and circumstances along with global interactions and influences. The programme enhances the insightful understanding of interplay of social, cultural, ecological, political and economic variables in the development process which is required to constructively deal with inequitable outcomes of the development.

The Programme prepares students for professional careers in the area of both governmental and non-governmental organisations. In addition to their regular coursework and research, an internship directly related to their studies provides an opportunity to integrate theory with practice. This component of the course allows students to engage with national and international development agencies, academic institutions, non-government organizations, policy think tanks, corporate organizations, and research and training institutions. The Internship programme imparts field specific skills amongst the students, enabling them to understand development issues comprehensively. They are also encouraged to organise/participate in regular events such as the programme-based cultural festival, expert panel discussions on development issues and job placement opportunities.

Course Structure

The 80-credit M.A. Programme in Development Studies spread over four semesters consists of core courses, courses on 'method', optional specialized courses, thesis writing, and practicum in field-setting and summer internship.



1st Semester:

Course title	Credits
Society, State and Governance	4
Development Economics: Theory, History and Experience	4
Research Methods	2
Quantitative Methods Level-1	2
Gender and Development	4
Qualitative Methods	2
Total	18

2nd Semester:

Course Title	Credits
Statistics-II	2
Political Economy of India's Development	2
Urbanization and Urban Development	2
Human Development	4
Post-Colonial Development/Third	4
World Perspective of Development	
Socio-Psychological and Anthropological	4
Perspective of Development	
Thesis Proposal and Literature Survey	2
Summer	
Internship	2
Thesis Based Field Work	2
Total	24

3rd Semester

Course Title	Credits
Principles and Practices of Public Policy	4
Indian Agrarian System: Challenges and Prospects	2
Contemporary Development Discourse	2
Environment and Development	2
Demography and Population Dynamics	2
Rural Development	2
Thesis Data Analysis	2
Any two of the Elective courses	4
Total	20

4th Semester

Course title	Credits
Development Communication	2
Project Cycle Management	2
Industrialization, Globalization and Labour	2
Multilateralism and Development	2
Thesis Writing and Seminar	4
Comprehensive Viva Voce	2
Any two of the Elective courses	4
Total	18

- Information and Communication Technologies in Development
- Informal Sector
- Disaster Management
- Food security and nutrition
- Microfinance
- Advance Quantitative Methods
- Public Health
- Strategies for Social Intervention

Curriculum and Pedagogy

Teaching of a transformational science: Pedagogical innovation for MDS at CUB

Development Studies is a major dynamic field concerned with process of changes in various domains like social, economic, political, cultural, and human development. In the post-colonial era extending over the last six decades, development of former colonial nation states, popularly called developing countries, has occupied the centre stage of the world agenda. Development Studies (DS) is geared to understand and unravel the agenda not only as an intellectual pursuit but also as a determined effort to change the situation in favour of those deprived of development. Development Studies tend not to be interested in knowledge generation for its own sake but for its applied or instrumental value. It is concerned with real-world problem (even when theorizing). Many members of the DS community seek to 'make difference' by joining action at the fields taking actual ground issues. Development Studies from this perspective is transformational in nature. CUB's commitment is to positively play transformational role for betterment of mankind.

Considering the transformational nature of the subject its pedagogy has to be carefully thought through. First and foremost is the ideological plank which needs to be clear. The conventional orthodox knowledge transaction is hierarchical and unidirectional in the sense that the teachers as 'dispensers' of knowledge are considered to possess the wisdom which is ultimate and not to be contested or questioned. The transformational nature necessitates and calls for the teachers to develop trust and confidence in the capability of the students who can equally contribute to the generation of knowledge and together can change the situation in favour of seemingly less endowed. This paradigm shift is basic for the course structure of Development studies to assume and play transformational role. The strategy and tools for knowledge transaction follows from this conviction –'respect the capability of the students and consciously encourage them to be expressive'.

CUB stands for the above perspective of learning as mutually reinforcing knowledge transaction and offering enabling inputs to achieve them. When the programme on Master in Development Studies started, the strategy and process were evolved to achieve the above. Pedagogical innovation included the followings:

1. **Exploratory Induction:** Since the students represented different disciplines development as a discourse was allowed to evolve. The process followed identification of the geographical and demographic contours of development and exploring definition of development by the students. The instructors preferred to be facilitators. The students explored various nuances of development which helped set in a reasonably comfortable level of preparedness,
2. **Participative Classroom Contact Hours:** having created a reasonably good level of preparedness the intricacies of the interfacing subjects were presented using congenial and participative methods where in the instructors used group discussion, group learning and presentation.
3. **Face to Face with the Realities:** Students were encouraged to look at the reality of how development is seen by different people and how there are differences in enjoying the fruits of development. They went to the field, interacted with various actors, reflected individually or collectively and related them with the on-going development praxis. This helped in developing critical reflective process and comfortable learning space,
4. **Systematic Exposure:** After certain level of understanding is created the students would spend some time in the field to get exposed to the realities and immerse in the rural and urban situations. This is crucial part of the pedagogy which helps the students internalize some of the essential nuances and strategize into action to deal with them,
5. **Larger Scientific and Technical Interaction:** As essential part of the pedagogy the students are helped to interact with the professional community through dedicated seminars and workshops. They also have seminars and other interactive activities organized in-house.

The pedagogical innovations have helped the students absorb and internalize independent development nuances and sensitized them to be reflective, objective and humane in their approach as professionals.

Beyond the Class Room

Seminars, Workshops, Dialogues and Field Visits

University Lecture series

- **Structure and Structural Changes in India:** A fundamental Economic structure approach; Dr. Sudhir K. Thakur, Asst. Prof., California State University, U.S.A.
- **High Technology and Socio-Economic Transformation in Bengaluru:** A geographical analysis; Dr. Rajni Kalra, Department of Geography and Environmental Studies, California state University, U.S.A.
- **Culture and Development:** Prof. John Berry, Queens University, Canada.

- **Workshop on personality Development:** Suneel Keswani
- **Women Empowerment and Group Participation:** Paper presentation by Joy Shankar Bhattacharya, Centre for Economic studies and policy, Central University of Bihar.
- **Social Sciences in a Post-National World: Towards a Contemporary Politics of Location:** Satish Deshpande, Professor and Dean, Faculty of Social Sciences, University of Delhi
- **Inequality in Process and Consequences: An overview:** By Prof. Bhaskar Majumder Centre for Development Studies, Central University of Bihar.

Seminars Organised

- **Road to Quality Education:** Central University of Bihar and The Times of India
- **Development Studies and India's Development:** Prof. S. Parasuraman, Director, TISS, Mumbai
- **Local Governance in India – The Way Forward:** Dr. Trilok Mishra, Deputy Director, Office of the Vice-President of India, New Delhi
- **Ecology of Adolescence in India:** Prof. T. S. Saraswathi, M.S. University, Baroda
- **Youth in India: Situation and needs for study:** Indian Institute of Population Studies, Mumbai
- **Ganga Yatra':** Sri Rajendra Singh, Magsaysay Award winner and Expert Member of the National Ganga River Basin Authority (NGRBA)
- **2nd National working conference on Social entrepreneurship:** XLRI, Jamshedpur
- **3rd National Conference on Social Entrepreneurship :** XLRI, Jamshedpur

Workshops Conducted

- **Central University of Bihar and Net Impact Club, Wadhvani Centre for Entrepreneurship Development (WCED) of the Indian School of Business Gachi Bowli, Hyderabad** conducted a 2-day workshop on skill-building for non-profit organizations in Patna, Bihar on Dec 10-11, 2011. The workshop witnessed participation from 17 NGOs. Modules as Organization Building, Governance and Metrics, Fund raising and Income Generation, Social Innovations and New Business Models, Negotiations, Strategic Marketing, Disaster Management, and Leveraging IT to Solve Development Issues, were covered. The purpose of the workshop was to instill entrepreneurial approaches in traditional non-profit organizations to enable them to scale effectively and achieve operational efficiency.
- Workshop on '**Development and standardization of questionnaire for social research**', held at the Central University of Bihar during April 5-6, 2012.
- **Workshop on Statistics with SPSS** organized by the Centre for Development Studies held during November 2-3, 2012.
- **Thesis proposal and Project writing workshop** organized by Centre for Development Studies, held at Central University of Bihar during January 23-24, 2013.



Summer Internship

The Summer Internship for a period of eight weeks prepares students for professional careers in the area of both governmental and non-governmental organisations. In addition to their regular coursework and research, an internship directly related to their studies provides an opportunity to integrate theory with practice.

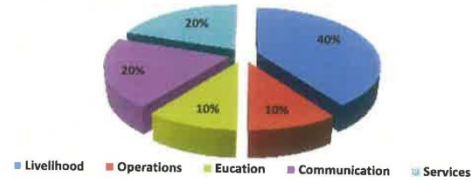
This component of the course allows students to engage with international development agencies, academic institutions, non-government organizations, policy think tanks, corporate organizations, and research and training institutions at the organizational and field level. The Internship programme imparts field specific skills amongst the students, enabling them to understand development issues comprehensively.



On the field during the internship at SAKHI in Madhubani on fisheries communities



Area of Internships



MADS students interacting with respondents for Master's thesis work.

List of Summer internship Organisations
Aga Khan Rural Support Programme
PRIA
Nidan
Praxis
Sakhi

Faculty

The centre has a team of high level academics, practitioners and people with strong policy interface. They have nurtured the students and helped them sharpen their focus and understanding of the interdisciplinary dynamics of development. The Centre of Development Studies invites regular visiting faculties from other schools of the University as well as leading institutions and organisations in the development sector. The vast pool of knowledge and experience of the faculty is one of the greatest intangible assets of the Centre.

Internship Mentors	Affiliation	Names of the students
Mr. Amitav Bhattacharya	PRIA, Patna	Thakur Prem Kumar, Rakesh Kumar, Rumi Mukherjee, Jaya Singh
Mrs. Vijeta Laxmi	Praxis, Patna	Shiroma Priyadarshani
Mrs. Suman Singh	Secretary, Sakhi, Patna	Rani Kumari, Raushan Kumar, Ganesh Kumar
Mr. Arvind Singh	Executive Director, Nidan	Ramesh Kumar Rajak
Mr. Vivek Anand	Development Specialist, Aga Khan Rural Support Programme	Neeraj Kumar

Name	Educational Qualifications
Prof. Janak Pandey	PhD (Social Psychology, Kansas State University)
Prof. Debdas Banerjee	PhD (Economics, Calcutta University)
Prof. Sunil Ray	PhD (Economics, ISEC Bangalore)
Prof. Bhaskar Majumder	PhD (Economics, Calcutta University)
Ms. Anju Helen Bara	M.Phil (Indian Institute of Technology Bombay)
Mr. Vinod Arya	M.Phil. (JNU), New Delhi
Mr. Aditya Mohanty	MA (JNU), New Delhi
Anamika Priyadarshini	MS (International Development, Cornell University), US
Prof. T.N. Sinha	Ph.D. Patna University, ASSERT, Patna
Mr. Sanjeev Bakshi	Indian Statistical Institute, New Delhi
Dr. Rakesh Shukla	PhD (BHU), Varanasi
Dr. Rajashree Padhi	PhD (Central University of Hyderabad), Andhra Pradesh
Guest faculty	
Dr. Govind Rath	G.B. Pant Social Science Institute, Allahabad



Why recruit us?

In the present scenario, development professionals are in demand to make this world free with poverty, violence, inequality and make it a better place to live. 'Development Studies' as a discipline trains students to become development professionals giving them balanced exposure between applied field based learning along with theoretical and conceptual knowledge. This programme assists in developing critical thinking of students and skill to plan, assess, implement, and evaluate development project. Students acquire advanced knowledge in socio-economic, cultural as well as human development, and also about political institutions. Students are trained in such subjects as principles and practices of public policy; and project cycle management apart from advanced quantitative methods which enable them to handle projects independently.

The students acquire practical knowledge and experience, through the rural visits, internships and various projects. They have rural exposure visit where they visit NGOs to know more about development related work and also to have direct experience of development problems existing in our society. Two months of summer internship give them practical knowledge and experience of the hardship of real complex world. The field work for their thesis gives them the necessary insight and skill to use tools of social research in the world outside. The students come from diverse background which gives them an opportunity to mix with others and learn about various cultures. They believe in team work exemplified by their successful organization of various workshops and cultural activities. They have a passion for research, backed by sound skills in computation, theory and experiments related to this sector. In brief, our students can proudly claim to have the ability to offer the most competent services to the cause of development.

Past Recruiters

Punjab State AIDS Control Society

Praxis, Seva Mandir

Chetna Vikas

PRIA (Society for Participatory Research in Asia)

SARD (Society for All Round Development)

Feedback Foundation

Lok Prerna

Skill Pro

Aide- et- Action

FORCE (Forum for Organized Resource Conservation and Enhancement)

DCS Trading Services

Mithila Gram Vikas Parishad

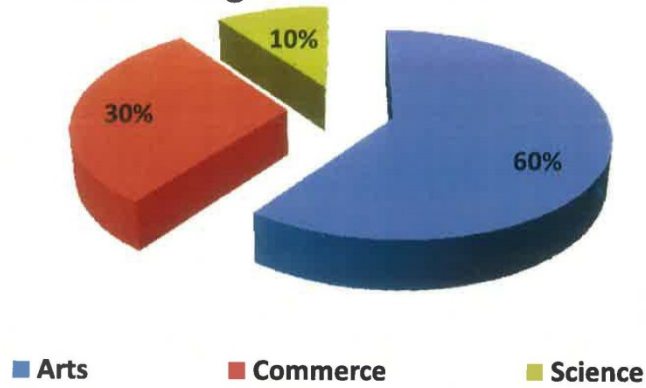
Nidan

Taxila society

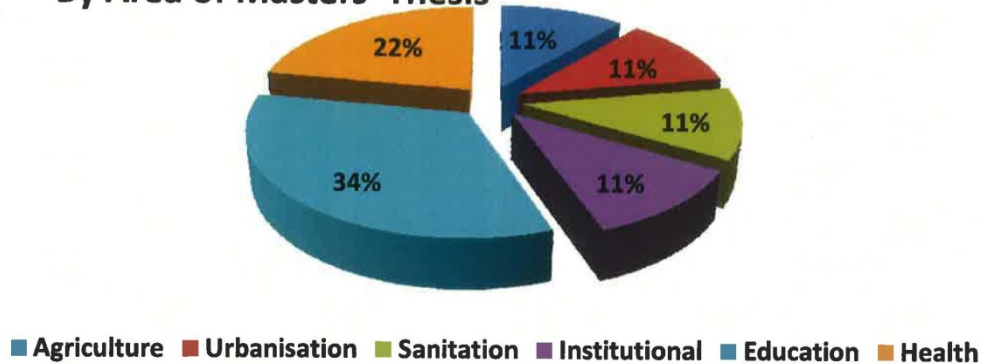
Innovators in Health

Batch Profile

By Educational Background





By Area of Masters' Thesis





Master Thesis is a unique and integral part of the programme. It introduces students to academic as well as social research and enhances their professional and advance research skills. The students begin their thesis project in the second semester and continue work on it to by the fourth semester. Every thesis comprises field work as well as vast Literature review and presentations. So, by following a project mode it enables the students to take up challenges of the professional world.


Students' Profile


	<p>Ganesh Kumar</p> <p>E-mail ID: ganesh@cub.ac.in</p> <p>Mobile No. + 91-9973298960</p>
Qualification	B.Com. from Patna University
Thesis Topic	Civil society institutional framework community empowerment: Village Health and sanitation committee
Work Experience/Internship	Wash Microplan: A tool to empower community on water and sanitation hygiene
Internship Organisation	Sakhi, Patna
Areas of research Interest	Sanitation, Self Help Groups, Livelihoods


	<p>Jaya Singh</p> <p>E-mail ID: jaya741088@gmail.com</p> <p>Mobile No. +91-7870741088</p>
Qualification	Bachelor in Social Work (BSW) from MagadhMahila College, Patna University, Patna.
Thesis Topic	A study of Mother awareness under the lens of ICDS and its effect on child health and nutrition.
Work Experience/Internship	Study of Patna Municipal Corporation in terms of Grievance redressal system.
Internship Organisation	PRIA (Participatory Research in Asia), Patna
Areas of research Interest	Health, Child Rights


	<p>Neeraj Kumar</p> <p>E-mail ID: kumarneerajsingh@cub.ac.in, kumarneerajsingh@gmail.com</p> <p>Mobile No. +91-9135009135, 9334369308</p>
Qualification	B.Com. from Magadh University
Thesis Topic	Impact of SRI on rural farmers in Nalanda district, Bihar
Work Experience/Internship	Assesment of change brought by CBSG in the Aga Khan Rural Support Programme.
Internship Organisation	Aga Khan Rural Support Programme (INDIA)
Areas of research Interest	Self Help Groups, Livelihood, Microfinance


	<p>Rakesh Kumar Singh</p> <p>E-mail ID: srakesh012@gmail.com rakeshkumar@cub.ac.in</p> <p>Mobile No. +91-8406993588, 8271340415</p>
Qualification	B.A History (Hons.), LNMU Darbhanga
Thesis Topic	An assessment of Kasturba Gandhi Balika Vidyalaya: A case study of Nalanda
Work Experience/Internship	Patna Municipal Corporation: Service Patterns And Citizens Participation
Internship Organisation	PRIA (Participatory Research in Asia), Patna
Areas of research Interest	Livelihoods, Education, Health


	<p>Ramesh Kumar Rajak</p> <p>E-mail ID: rameshkumarajak@gmail.com</p> <p>ramesh@cub.ac.in</p> <p>Mobile No. +91-9334096049</p>
Qualification	B.A. (Hons.) in History from Patna University, Patna
Thesis Topic	Role of Utthan Kendra in Mahadalit Educational Development
Work Experience/Internship	Made a detailed report titled "Integrated Educational Programme in Nidan" a comprehensive progress report of NIDAN' education project.
Internship Organization	NIDAN, Patna Office, Patna
Areas of research Interest	Children and Women Education, Slums

	<p>Rani Kumar</p> <p>e-mail id: ranikumari@cub.ac.in</p> <p>ranikumari3490@gmail.com</p> <p>Mobile No. +91-8409679538</p>
Qualification	BA(Hons.) in Economics from S.M College, Bhagalpur. TMB University
Thesis Topic	Government schemes for girls education: Its impact on girls empowerment
Work Experience/Internship	Socio-economic status of fisheries communities and impact of existing fisheriescooperatives on life of fisheries community in Andhrathadi block.
Internship Organization	Sakhi, Patna
Areas of research Interest	Education, Child Rights, Livelihood

	<p>Raushan Kumar e-mail id:raushan922002@gmail.com raushan@cub.ac.in Mobile No.+91-8271725222</p>
Qualification	B.com (Hons.) Magadh University
Thesis Topic	MGNREGA and BPL family livelihood: A case study in Rajgir block of Nalanda district.
Work Experience/Internship	Socio-economic status of fisheries communities and impact of existing fisheriescooperative on life of fisheries community in Andhrathadi block.
Internship Organisation	Sakhi, Patna
Areas of research Interest	Livelihood, Rural Employment

	<p>Rumi Mukherjee E-mail ID: rumi060@cub.ac.in, rumi060@gmail.com Mobile No.-+91-9006621873</p>
Qualification	Bachelor in Social Work (BSW) from Magadh Mahila College. Patna University, Patna.
Thesis Topic	Role of Female Agency In Family Planning & Contraceptive Use
Work Experience/Internship	Study of Patna Municipal Corporation in terms of Grievance redressal system.
Internship Organization	PRIA (Society For Participatory Research in ASIA), Patna
Areas of research Interest	Gender, Health

	<p>Shiroma Priyadarshini</p> <p>E-mail ID: priyadarshini.shiroma20@gmail.com shiroma@cub.ac.in</p> <p>Mobile No.+91-08102752628 /8235208092</p>
Qualification	Bachelor in Social Work (BSW) from Magadh Mahila College. Patna University, Patna.
Thesis Topic	Impact of 73 rd. amendment on Dalit womensarpanch.
Work Experience/Internship	Preparation of guidebook for sensitisation of Police (over rehab of Prostitute or Abandoned girls) based on experience of PRAYAS BHARTI
Internship Organization	PRAXIS, Patna
Areas of research Interest	Gender, Governance

	<p>Thakur Prem Kumar</p> <p>E-mail ID: prem78218@gmail.com, thakurprem@cub.ac.in</p> <p>Mobile no. +91-9709978218</p>
Qualification	B.Sc. in Chemistry (H), LNM University Darbhanga
Thesis Topic	Slums as nodes of Urbanisation: A case study of Bihar Sharif
Work Experience/Internship	Patna Municipal Corporation: Service Patterns and Citizens Participation
Internship Organization	PRIA (Society For Participatory Research in ASIA), Patna
Areas of research Interest	Housing, Education, Labour



Placement Brochure 2013

Placement Participation Form

Name of the organization.....
 Job title of the vacancy.....
 No. of vacancies.....
 Location details.....
 Name of contact person.....
 Telephone (Office)..... (Residence).....
 Address of communication

Job Details

Functional Area	Location of Posting	Tentative No. of Offers

Job Description (in brief)

Training Duration (if any)

Please suggest a suitable date(s)

Mode of Selection

Written Test	Group Discussion	Interview	Others

Placement Brochure 2013



Placement Guidelines:

1. The university may provide local hospitality and conveyance, however no TA will be paid to the selection team.
2. Minimum package has to be disclosed before the selection process.
3. The employer will be required to disclose all terms and conditions (including the duration between selection and joining) before selection process.
4. Region, religion and caste related questions must not be raised during the selection process.
5. The university will not play any role in case of dispute between employer and employee after recruitment.

For further details contact:

Dr. Ram Kumar

Chairperson, Placements Cell

Email: placements@cub.ac.in

Phone: 0612-2784177, 91-8235426744

Mr. Aditya Mohanty

Placement coordinator, CDS

Email: amohanty@cub.ac.in

Phone: 0612-2784154, 91-8404934161

Official Address:

Central University of Bihar
BIT Campus, PO: B V College,
Patna 800014, Bihar, India

Ph No: +91-612-226538

University's Website:

<http://www.cub.ac.in>



Placement Brochure

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**CENTRE FOR
MASS COMMUNICATION
AND
MEDIA STUDIES**



Central University of Bihar

www.cub.ac.in



The University

Established under the Central Universities Act, 2009, the Central University Bihar (CUB) with a unique academic system, with high academic excellence.

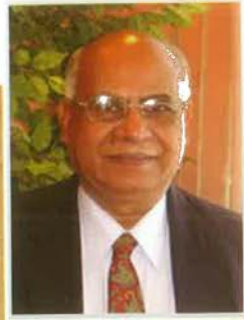
University is presently located at the premises of Birla Institute of Technology, Patna (Office: BIT Campus, PO: B.V. College, Patna- 800014. Permanent location of the University at Gaya is under active consideration of the Central Government.

The University made its beginning by establishing the Centre of Development Studies under the School of Social Sciences and Policy and launched a two years Master Programme in Development Studies in the academic session 2009-2011.

In the very next academic session 2010-2012, the University launched five more courses.

In 2011 Centre for Mass Communication & Media was launched under the School of 'Media Arts and Aesthetics'.

At present, the University is running total 14 courses and has a well equipped advance computer lab, library and other academic facilities.



Vice Chancellor Prof. Janak Pandey

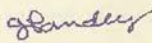
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The Central University of Bihar, founded in 2009 by an act of Parliament, is a national institution of excellence for teaching, research and applications. It emphasizes on knowledge creation for the improvement of social, economic conditions and well-being of the people, their intellectual, academic and cultural development. The University presently located in Patna, made a modest beginning in 2009 by launching Master's program in Development Studies. At present the University provides 16 Master programs. In 2011, Centre for Mass Communication and Media was introduced.

The Centre for Mass Communication and Media has been developed with an aim to balance theoretical and practical knowledge of various aspects of media. The Centre emphasizes on preparing students in such a way, that they can meet the challenges of media industry.

In order to meet the demands of the media industry, the Centre provides hands on training to the students. For the purpose the Centre has well equipped media laboratory and the Centre arranges frequent interactions with media experts.

I am optimistic that graduating students will serve your organization efficiently and shoulder responsibilities with great valor. It gives me immense pleasure to invite your organization to visit our campus to interact with the students. I wish good luck to graduating students and I am sure that they will succeed in every role of life.


(Janak Pandey)
Vice-Chancellor

CUB Placement Brochure, 2013

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Chairperson
Placement Cell
Dr. Ram Kumar



We are living in an era of global village where information is considered as a power. The media, print as well as electronic, play an important role in information transfer. Furthermore, freshly trained and committed young professionals play a significant role in maintaining the dignity of the fourth pillar of democracy. I am happy to note that apart from the regular post graduate programme our University media fraternity have been conducting proficiency development programs, media research seminars and workshop to further strengthen students and make them highly competent.

I am pleased to introduce a batch of 12 students, who are going to graduate soon, and will be able to make their way to media industry. They are destined to uphold and enrich the glorious traditions of the media world. They have got hands-on experience of handling still camera, video editing and documentary film making and hence they are in a position to take up any challenge at their work field. They are competent to join media industry jobs, immediately after earning their Master Degree. They have the ability to pursue higher education and do independent research. I am fully confident that they would exhibit their abilities and prove their worth as competent media professional, as and when they get opportunity for the same.

On behalf of the Career Counseling -cum -Placement Cell, I am pleased to invite your esteemed organization for the placement of our students of MA Communication and Media Studies at the Central University of Bihar, Patna. Based on skills and values imbibed among them I believe that this first batch of MA Mass communication and media will set newer benchmarks and establish the image of the CUB irreplaceable when it will come to producing the country's best media professional.

Ram Kumar



Head in-charge Dr. Kinshuk Pathak

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The Centre for Mass Communication and Media at Central University of Bihar has been established in 2011 with a perspective to develop media professional with ethical values and national commitment.

I am happy to introduce a group of 12 students, our first graduating batch of MA Mass Communication and Media. These students are looking forward to June 2013 when they will graduate and enter the exciting world of media industry, Research and Academics, after having gone through a rigorous master program of four semesters. I am confident that while the three semesters curriculum helped them to build the required theoretical foundation and provided technical expertise the on-going 4th semester expose them to camera handling, video editing and the basics of still camera to shape them professionally in distinct ways.

I am confident to mention that they have got hands- on experience and exposure to work and carve out their own niche within the sphere of the 4th pillar of democracy. Our basic motive is to merge tradition with modernity, mission with professionalism and local perspective with global context. And hence this batch of students will be an asset for their employer, as they have been given skills required in the field of media.

Dr. Kinshuk Pathak

CUB Placement Brochure, 2013

Library

The Central University of Bihar have well-equipped central Library to cater the information requirements of students and faculty members. The Library, over a period of three years, has built a balanced collection of 10,000 books to support teaching and research in the area of various Science and Social Science subjects. The central Library, subscribes to 60 quality print journals with high impact factor from renowned publishers across the world.

It provides access to more than 5000 e-journals though UGC-Infonet: Springer, Taylor & Francis, Willey Blackwell, Oxford University Press (OUP), Cambridge University Press and many more.

Besides, Library subscribes to journals and conference proceedings of IEEE Computer Society, Online resources of BBC College of Journalism from OUP. Online databases like www.indiastat.com, MathScinet and Economic and political Weekly (EPW) online are available. In addition to these resources, an initiative has been taken to increase number of print journals to 100 and subscribe Sage Online HSS Package, IEEE Explore and ScienceDirect (five Subject collections) for the year 2013.





Centre for Mass Communication and Media

The two years (four semesters) Master programme in Communication & Media Studies is a well composed set of comprehensive & rigorous courses related to various elements of "Communication". This course under the School of Media, Art & Aesthetics was started in 2011 with a vision to bring out a new revolution in the field of higher studies for mass communication & media studies in Bihar.

Since its inception the centre continues to provide its students a comprehensive media education that nurtures the individual skills & strengths and inspire them to use the potential of media as a tool for integral development.

A balanced blend of theory & practical sessions in the form of regular presentations; industry visits, training & workshops; a two month summer internships; field communication research, guest lectures; seminars etc. are the key features of course curriculum. The faculties at department are experienced, competitive and supportive in their approach.

CUB Placement Brochure, 2013

The Subject

The world of Communication & Media is a knowledge based terrain where an aspirant has to be well familiar with all the sectors of today's life, whether it is Economy, History, Politics, Social dilemmas, Culture, Environment, Lifestyle or others. This is why it encompasses all the theoretical & practical aspects of Communication which has been the base of human development since the inception of civilizations. In today's information & technology driven world, the importance, acceptance & role of communication & media is touching new horizons.

In the 21st century our knowledge of major political, social and cultural happenings across the world is usually shaped first by the media.

What we know of the world, and how we act in it, is critically related to our use of communication technologies, from language to screen, and from text to social networks.

The process of digitalization has added another avenue to the existing revolution.

Media Lab.

Centre for Mass Communication and Media has two Labs namely electronic media production lab and computer lab. Electronic



media production lab is well equipped with professional cameras (Panasonic), audio console, video mixer and Apple Mac-Pro editing suite with necessary softwares. Computer lab comprises of a set of ten computers loaded with Quark Express, Adobe Master Collection CS 5.5 which consists of Photoshop, Indesign, Illustrator, Flash, Dreamweaver, Fireworks, Adobe Premiere and Adobe Audition. Further, handy cameras, digital still cameras provision of film screening are also available in the lab. In future, the Centre plans to establish highly advance electronic media studio. Besides, Hindi and English newspapers and magazines are available to students to inculcate good reading habits; a television set with digital connection to give practical inputs regarding the latest trends in electronic media.



- A four days workshop on 'TV news package formation' has been organised in guidance of Mr. Amiya Mohan, TV reporter.
- A workshop with Dr. Devesh Kishore, regarding 'research techniques' was organised twice in the four semesters.
- The students participated in a three days 'photography workshop' organised in the department. During the period, the students became aware with a number of photography techniques and ideas, in supervision of eminent photographer Mr Umesh Gogna.



- Training on 'documentary production' was given by Prof. Iftekhhar Ahmed, Dean, FTII, Pune.

CUB Placement Brochure, 2013

Guest Lectures

1. Prof. B K Kuthiala

Vice Chancellor, MCRPV

Subject : Scope of media education

2. Mr. Anand Pradhan

Associate Professor, IIMC, New Delhi

Subject : Media, ethics and its challenges



➤ **Mr. Arun Kumar**, delivering lecture to the students. On reporting and editing.

3. Ms. Soma Chaudhary

Managing Editor, Tehelka

Subject: Blowing bubbles- India & the challenges of the role of media in society

4. Mr. Arun Kumar

Bureau Chief, HT, Patna

Subject: Media and developmental issues

5. Mr. Pushpraj

Journalist, Social Activist

Subject : Social responsibility of media

Student Activities

The students performed various activities related to their course and academic area, which includes:

1. Intra-University lab journal publication.



2. Photography of the various events of the University.
3. Preparing press releases and reports of the various university events.
4. Organising events, like -
 - Group discussions
 - Debates
 - Seminars
 - Movie sessions
5. Anchoring/ hosting the events (cultural/academic) in the university.

CUB Placement Brochure, 2013



Course Structure: M.A. Communication & Media Studies

Course Duration: 2 Years (Four Semesters)

Course Code	Course Title	Credits
CMS-501	Introduction to Communication Studies	4
CMS-502	Media History and Development	4
CMS-503	Print Journalism	4
CMS-504	Computer Application	4
CMS-505	Current Affairs	4
Total Credit		20

Semester - I

Course Code	Course Title	Credits
CMS-506	Communication Skills	4
CMS-507	Broadcast Journalism	4
CMS-508	Communication Research	4
CMS-509	Media Laws and Ethics	4
CMS-510	Development Communication	4
Total Credit		20

CMS-511	Summer Internship	2
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CUB Placement Brochure, 2013

Semester - III

Course Code	Course Title	Credits
CMS-612	Visual Communication	4
CMS-613	Communication Technology	4
CMS-614	Media Management	4
Optional /Specialization (one of two given below)		
Journalism:		
CMS-615	(a) Advance Print and Online Journalism (b) Electronic Journalism	4
Electronic Media Production:		
CMS-616	(a) Radio Programme Production (b) TV/Video Programme Production	4
Total Credit		20

Semester - IV

Course Code	Course Title	Credits
CMS-617	Dissertation	6
Option 1: Journalism Production with multiple input - in any one of the three		
	(a) Radio (b) TV (c) Lab Journal	6
Option 2: Production on projects with multimedia inputs – in any one of the three		
	(a) Radio (b) Video (c) Production of script for print or multimedia	6
Total Credit		18

Department Faculty Members:



Dr. Kinshuk Pathak

Assistant Professor (Head in-charge)

Ph.D in Journalism (MCRPV, Bhopal)

Area of Expertise: Editing and Reporting

Authored two books - 'NAYA MEDIA NAYE AYAM' and
'YASHASVI AHINDI BHASHI'

Several research papers published in National Journals.

Email: kinshuk@cub.ac.in

Mr. Sujeet Kumar

Assistant Professor

M.A. in Mass Communication

(Guru Jambheshwar University, Hisar)

Area of Expertise: Online Journalism and New Media, Reporting
Communication Tech., History of Journalism
Editing, Development Communication.

Has 8 years of industrial experience with HT & NDTV in Delhi.

Email: sujeetkumar@cub.ac.in



Ms. Deeksha Chamola

M.A. in Advertising & Public Relations

(Madurai Kamaraj University, Madurai)

M.A. in Mass Communication

(Guru Jambheshwar University, Hisar)

Area of Expertise : Advertising, PR, Communication,
Social Media, Corporate Communication

Has 2 years of industry and 4 years of teaching experience.

Email: deeksha@cub.ac.in

Guest Faculties



Nutan Choudhary

Director, Zenith Life & Soft Skills Solutions
Guest Faculty, L. N. Mishra Institute, Patna
Email: nutan.chy@gmail.com



Aditya Kumar

Technical Head
Hindustan, Patna
Email: aditya.kumar@livehindustan.com



Shambhu P. Singh

Programme Executive
Doordarshan, Patna
Email: sps.14673@gmail.com



Sunil Pandey

Input Head
Maurya TV, Patna



Rajeev Kumar

Managing Director
Hubnet Technologies Pvt. Ltd.
Email: rajeev@hubnettech.net

CUB Placement Brochure, 2013

Students' Profile

Amit Kumar

Date of Birth : March 24, 1991
Graduation : BJMC from Maulana Mazhrul Haq
Arabian & Persian University

Technical Skills:

- Diploma in Computer Application
- Hindi -English Typing
- FCP & Nuendo Software
- Quark Express
- Photo Shop

Internship and Trainings:

Email: amitmasscom2011@gmail.com



Avinash Kumar

Date of Birth : March 23, 1988
Graduation : BBA

Technical Skills:

- Diploma in Computer Application
- Hindi -English Typing
- Quark Express
- Photo Shop

Internship and Trainings:

- 15 days internship in Hamar TV, Noida
- 15 days internship in Sahara Samay, Noida

Email: avinash.cub@gmail.com



CUB Placement Brochure, 2013

Ganesh Shankar

Date of Birth : January 8, 1990

Graduation : BA Hons. in Mass Communication,
Patna College, PU

Technical Skills:

- Adobe Photoshop
- Quark Express
- Typing.(Hindi, English)

Internship and Trainings:

- One month internship in Sahara samay, Noida
- 15 days training in Hamar TV, Noida
- Two months iniernship in Bajaj Allianz PR dept.

Email: ganeshshankar123@gmail.com



Khushboo

Date of Birth : March 03, 1990

Graduation : BA in Mass Communication, Patna Womens
College, PU Patna.

Technical Skills:

- Adobe Photoshop
- QuarkXPress
- Hindi English typing

Internship and Trainings:

- One month internship at Sadhna news,
- 2 week internship in Maurya TV.
- One month internship at dainik jagon.
- One month internship in IPRD

Email: Sinha.khushboo21@gmail.com



CUB Placement Brochure, 2013

Md. Noor Ali Imam Hassan

Date of Birth : January 01, 1992

Graduation : Bachelor in Journalism & Mass Communication,
MMHA&P University, Bihar, Patna

Technical Skills:

- DCA
- DTP
- AUTO CAD
- TYPING (Hindi, English)

Internship and Trainings:

- One month Internship in "Zee News UP" Channel.

Email: mdnoor_imam@yahoo.com, mdnoor.imam@gmail.com



Narottam Bhasker

Date of Birth : January 01, 1980

Graduation : BA Hons in Philosophy Maghad University

Technical Skills:

- Diploma in Computer application from NIIT
- Win-98/2000/XP
- Ms-Office
- Photoshop, Quark Express

Internship and Training:

- Reporting with Hindustan Times Patna for one month

Email: narottambhasler@in.com, narottambhasker@cub.ac.in



CUB Placement Brochure, 2013

Rakesh Kumar

Date of Birth : April 28, 1987
Graduation : Bachelor of Mass Communication, (PU) Patna.



Technical Skills :

- Photography (University Photographer)
- (DCA, DTP), Quark Express
- Typing- Hindi, English
- Adobe Photoshop

Internship and Trainings:

- Summer Internship in Sadhna News for one month.
- One month training in E.N. Communication (Views on News) Noida

Email: rakeshcub28@cub.ac.in, rakeshbmc28@gmail.com

Ratnapriya

Date of Birth : August 13, 1991
Graduation : Bachelor of Journalism, MCRPV, Bhopal



Technical Skills :

- Hindi, English typing
- Photoshop
- Quark Xpress
- Ms-Office

Internship and Trainings:

- Two month Training in Prabhat Khabar, Patna
- One month Internship in The Statements Noida
- One month Internship in Sahara Samay, Noida

Email: ratnapriya91@gmail.com

CUB Placement Brochure, 2013

Saurabh Kumar

Date of Birth : February 05, 1989

Graduation : B.A.Tourism Studies, IGNOU, New Delhi

Technical Skills:

- Diploma in Multimedia Application
(Photoshop, Quark Express, Coral Draw, Flash & Sound Forge)

Internship and Trainings:

- One month Summer Internship, All India Radio, Patna

Email: saurabh@cub.ac.in, neoeastwood87@gmail.com



Syed. Monish

Date of Birth : March 01, 1979

Graduation : Bachelor in Journalism & Mass Communication
MMHA & P University, Bihar, Patna

Technical Skills:

- Hindi -English Computer Typing
- FCP
- Quark Express
- Photo Shop

Internship and Trainings:

- Intern in video editing department at Maurya TV, Patna

Email: syed.monis6@gmail.com, smmonis@yahoo.com



Urvashi

Date of Birth : January 01, 1988

Graduation : BA in Mass Communication, Patna University

Technical Skills :

- Photoshop, Quarkxpress and Hindi English typing

Internship and Trainings:

- One month internship in Hindustan
- Two week internship in Maurya TV
- One month internship in Bihari khabar

Email: urvashi01aug@gmail.com



Vijeta Chandel

Date of Birth : February 12, 1988

Graduation : B.Sc. Chemistry (Hons.)

Technical Skills :

- Adobe Photoshop
- Quark Express
- Ms-Office

Internship and Trainings:-

- Zee National New Delhi (HQ)

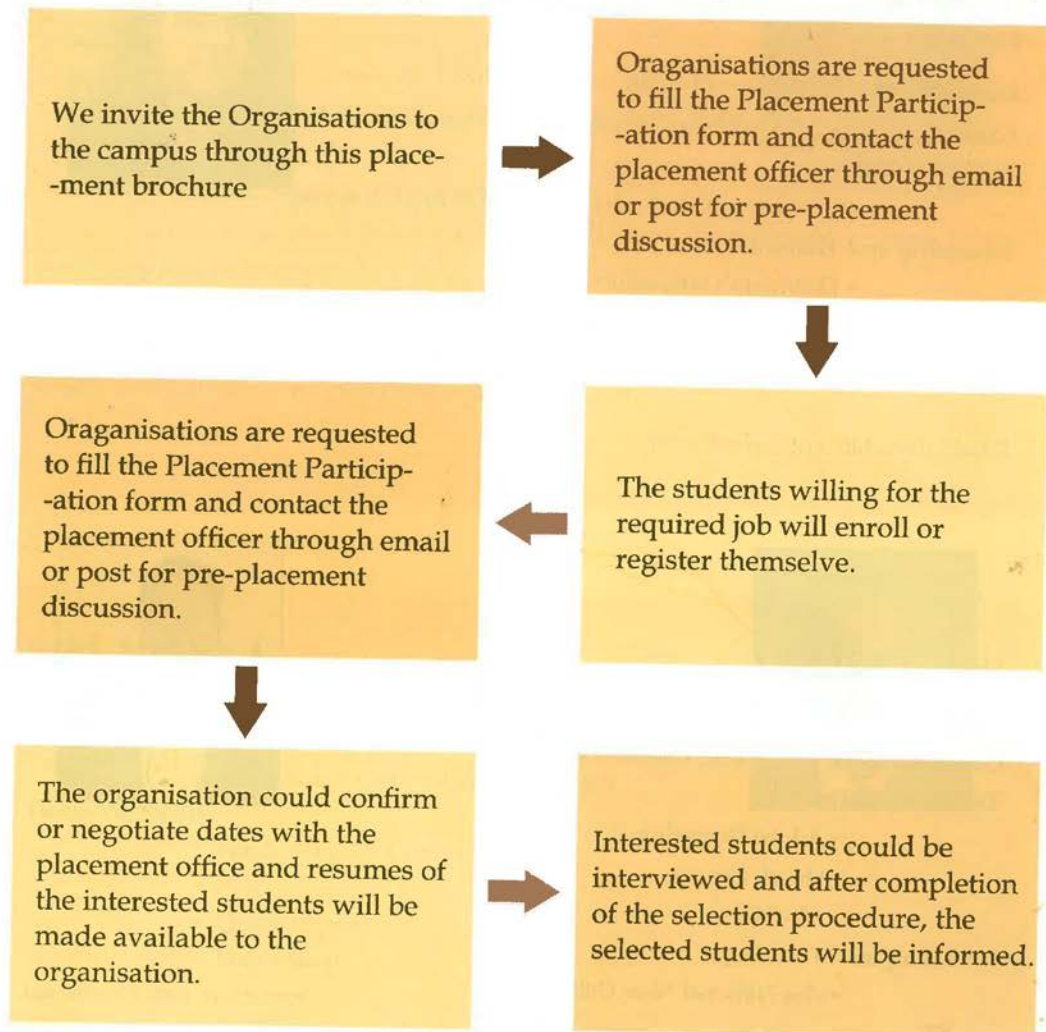
Email: vijetasinghpatna@gmail.com





CUB Placement Brochure, 2013

Placement Procedure





Placement Participation Form

Name of the organization:
Job title of the vacancy:
Number of vacancies:
Location details:
Name of the contact person:
Email of the contact person:
Telephone (office): Mobile:
Address of communication:
.....

Job Details

Functional Area	Location of Posting	Tentative no. of Offers

Job descriptions:
.....
Please suggest a suitable date(s):
.....

Mode of Selection

Written Test	Group Discussion	Interview	Others

CUB Placement Brochure, 2013



(3rd Batch 2011-13)

From Left to Right Row : Ms. Deeksha Chamola, Sujeet Kumar, Registrar, Prof. M. Nehal, Head in-charge, Dr. Kinshuk Pathak

Second Row : Vijeta Chandel, Md. Noor Ali Imam Hasan, Avinash Kumar, Amit Kumar, Rakesh Kumar, Saurabh Kumar

Third Row : Narrotam Bhaskar, Khushboo, Urvashi, Ratnapriya

Placement Guidelines

- The University may provide local hospitality and conveyance, however no TA will be paid to the selection team.
- Minimum package has to be disclosed before the selection process.
- The employer will be required to disclose all terms and conditions (including the duration between selection and joining) before selection process.
- Region, religion and cast related questions must not be raised during the selection process.
- The University will not play any role in case of dispute between employer and employee after recruitment.

For further details, please contact:

Dr. Ram Kumar
Chair-person, Placement Cell
Email: placements@cub.ac.in
Phone: 0612-2227600

Dr. Kinshuk Pathak
Placement Coordinator
Email: kinshukpathak@cub.ac.in
Phone: 0612-2784141

Student Committee:

Ratnapriya
Contact: ratnapriya13@cub.ac.in

Ganesh Shankar
Contact: ganesh_shankar@cub.ac.in

Md. Noor Ali
Contact: mdnoor@cub.ac.in

Saurabh Kumar
Contact: saurabh@cub.ac.in

Placement Guidelines

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Ratnapriya

Contact: ratnapriya13@cub.ac.in

Md. Noor Ali

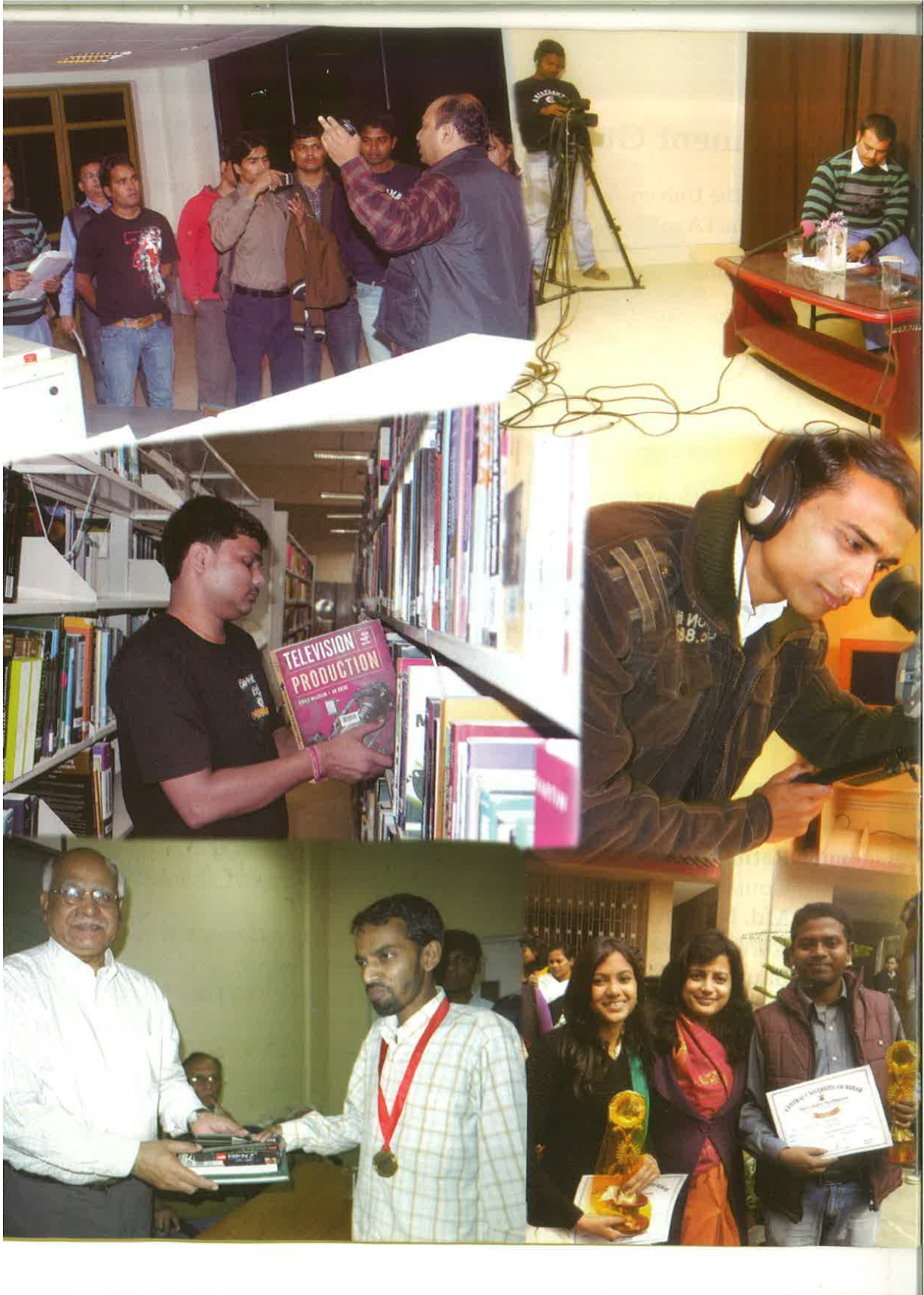
Contact: mdnoor@cub.ac.in

Saurabh Kumar

Contact: saurabh@cub.ac.in

Ganesh Shankar

Contact: ganesh_shankar@cub.ac.in







Central University of Bihar

BIT Campus PO: Bihar Veterinary College

Patna-800014, Bihar, India

Ph No. +91-612-2226537

University website: [http:// www.cub.ac.in](http://www.cub.ac.in)

Annexure-VIII(B) : Brouchres of National/International Conference



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**International Conference
on
Recent Trends in Computer Science & Engineering**

[ICRTCSE-2014]

8th - 9th February, 2014



Organized By

Department of Computer Science
Central University of Bihar
Patna (Bihar) India - 800 014



ABOUT THE CONFERENCE

Department of Computer Science, Central University of Bihar is organizing International Conference on Recent Trends in Computer Science and Engineering (ICRTCSE) during Feb 8th – 9th, 2014, Patna, Bihar. The vision of the ICRTCSE is to provide a platform for sharing the innovative ideas and current trends in Computer Science and Engineering. ICRTCSE provides a place for high opportunities for practitioners, corporate people, researchers and students to present ongoing research and development works in Computer Science and engineering areas. It will continue to provide information on the latest trends and the developments in this ever-growing field.

There were more than 102 online submissions. After reviewing thoroughly each paper by at least two reviewers, 40 papers were selected for publication. Majorities of the papers are from NIT Jamshedpur, North Orissa University, University of Kashmir, NIT Raurkela, NIT Raipur, NIT Patna, IIT-BHU Varanasi, WBUT Kolkata, SETS Chennai, MNNIT Allahabad, BBDNITM Lucknow, VIT University, Integral University (Lucknow), NIC Patna, Sastra University, Gandhigram Rural Institute, MITS University, Tirupur Kumaran College for Women, T.M. Bhagalpur, BIT Patna, CLUB Patna, M.U. Bodh Gaya, B.R.A. Bihar University. The conference proceeding is being published by Narosa Publishing House Pvt. Ltd.

ABOUT CENTRAL UNIVERSITY OF BIHAR

The Central University of Bihar (CUB) is one among the newly established Central Universities by the Government of India under the Central Universities Act, 2009 (Section 25 of 2009). The University is presently functioning from two Campuses, Patna (BIT Campus, P.O. - B. V. College, Patna-800014) and Gaya (New Area Bisar, Gaya-823001). The University shall be permanently located at Panchanpur, approximately 12 km from Gaya. In pursuance of its objectives and considering the emerging needs of society, the University has been evolving different Programmes ever since its inception in 2009.

The academic programmes of the University representing broad branches of knowledge are in the evolutionary process. The approved academic structure includes 14 schools : School of Mathematics, Statistics & Computer Science, School of Earth, Biological & Environmental Sciences, School of Social Sciences & Policy, School of Human Sciences, School of Media, Arts and Aesthetics, School of Social Sciences & Policy, School of Languages & Literature, School of Law and Governance, School of Education etc. The University has started offering Doctoral and Master Programmes namely five-year integrated M.Phil.-Ph.D in various disciplines from the year 2014.

ABOUT DEPARTMENT OF COMPUTER SCIENCE

Department of Computer Science was established in Central University of Bihar, with the objective of imparting quality education in the field of Computer Science. With rapidly evolving technology and the continuous need for innovation the department has always produced quality professionals, holding important positions in Information Technology industry in India and abroad.

The Department runs M.Sc. Computer Science and M.Tech in Computer Science with the aim to develop core competence in Computer Science and prepare the students to carry out development work, as well as take up challenges in research. Besides these the Department has strong research interests in diverse branches of Computer Science.

SPEAKERS

We have invited speakers and chairs from both academia as well as industry to make the conference more interactive and participatory. The academic keynote speaker of the conference are Prof. A.K. Misra, Chairperson, IEEE Signal Processing and Computer Joint Chapter (UP Section) and associated with MNNIT, Allahabad and Prof. Sanjay Misra, Professor of Computer Engineering, Covenant University, Nigeria. One of the international industrial speakers is Dr. Raj Natarajan, Richardson, Texas, USA, CEO of Forum Communication Systems. The industrial keynote speaker is Shri Sanjeev K. Trivedi, Regional Manager (Govt.)- South Asia from Adobe Systems India Private Ltd. Other speakers are Mr. Biju Panicker, Sr Customer Advisory, SAS and Shri Ajeet Kumar Gupta, Manager ATM, Local Head Office, Patna, SBI.

PROGRAMME SCHEDULE

Inaugural Day at Kautilya Hall, Maurya Hotel Patna
08/02/2014

Registration (09:00 A. M. to 10:00 A.M)

Inaugural Session (10:00 A.M. to 1.30 P. M.)

Welcome Speech	:	Organizing Secretaries
Speech	:	Prof. Debdas Banerjee, Pro-VC, CUB
Speech	:	Mr. Binod Kumar Pandey, Finance Officer, CUB
Academic Key Note Speech	:	Prof. A.K. Misra, Chairperson, IEEE Signal Processing and Computer Joint Chapter (UP Section) and associated with Department of Computer Science, MNNIT, Allahabad
International Speaker	:	Dr. Raj Natarajan, CEO, Forum Communication Systems, Richardson, Texas, USA
Industries Key Note Speech	:	Shri Sanjeev K. Trivedi, Regional Manager (Govt.)- South Asia Adobe Systems India Private Ltd.
Industries Speech	:	Mr. Biju Panicker, Sr Customer Advisory, SAS Mr. P. K. Sinha, Director, Astric (Centre Of Excellence)
Presidential Speech	:	Prof. Janak Pandey, Vice Chancellor, CUB

Afternoon Session (2.00 P. M. to 4.00 P. M)

International Speaker	:	Prof. Sanjay Misra, Professor of Computer Engineering, Covenant University, Nigeria
Industries Speech	:	Mr. Ajeet Kumar Gupta, Manager ATM, Local Head Office, Patna, SBI
Session Chairs	:	Prof. D. K. Singh, NIT Patna, Patna Dr. Rajiv Misra, IIT Patna, Patna
Academia Presentation	:	by respective paper authors



Valedictory Day at Central University of Bihar 09/02/2014

Morning Session- I

Venue : CUB Patna (Room No - 01)
Date : 09/02/2014
Time : 09.30 A. M. to 1.00 P. M.
Session Chair : Dr. Ravi Shankar Singh, IITBHU, Varanasi
Session Co-chair : Mr. Rajeshwar Puran, CUB, Patna
Academia Presentation : by respective paper authors

Morning Session- II

Venue : CUB Patna (Room No – 03)
Date : 09/02/2014
Time : 09.30 A. M. to 1.00 P. M.
Session Chair : Dr. D. S. Kushwaha, MNNIT Allahabad
Session Co-chair : Mr. Jainath Yadav, CUB, Patna
Academia Presentation : by respective paper authors

Afternoon Session – I

Venue : CUB Patna (Room No – 01)
Date : 09/02/2014
Time : 02.00 P. M. to 4.30 P. M.
Session Chair : Dr. Somanath Tripathy, IIT Patna, Patna
Session Co-chair : Mr. Nemi Chandra Rathore , CUB, Patna
Academia Presentation : by respective paper authors

Afternoon Session – II

Venue : CUB Patna (Room No – 03)
Date : 09/02/2014
Time : 02.00 P. M. to 4.30 P. M.
Session Chair : Dr. Samrat Mondal, IIT Patna, Patna
Session Co-chair : Mrs. Smita Roy, CUB, Patna
Academia Presentation : by respective paper authors

Conference Committees

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Prof. (Dr.) Janak Pandey, Vice Chancellor

Patrons

Prof. (Dr.) Mohammad Nehal, Registrar

Organizing Secretaries

Dr. R. Rajesh

Dr. Prabhat Ranjan

Organizing Committee

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Prof. Dr. Sunil Ray, Dean, CUB
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Mr. Binod Kumar Pandey, FO, CUB
Dr. Rajesh Pratap Singh
Dr. Rizwanul Haque
Mr. Nemi Chandra Rathore

Mrs. Smita Roy
Mr. Jainath Yadav
Mr. Rajeshwar Puran
Mr. Tarok Pramanik
Mr. Krishna Kumar Ojha
Dr. Kinshuk Pathak

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Dr. Hiroshi Esaki, University of Tokyo
Dr. Lim Chee Peng, Deakin University, Australia
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 Prof. (Dr.) B. D. Chaudhary, MNNIT, Allahabad
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 Prof. (Dr.) D.K. Kothari, Institute of Tech., Nirma University
 Prof. (Dr.) D. K. Singh, NIT Patna
 Prof. (Dr.) Debajyoti Mukhopadhyay, MIT
 Prof. (Dr.) G. Sasibhushana Rao, Andhra University
 Prof. (Dr.) G. K. Mahanti, NIT, Durgapur
 Prof. (Dr.) Girish Kumar Patnaik, SSBT's CET., Jalgaon
 Prof. (Dr.) K. Muneswaran, Mepco Engineering College
 Prof. (Dr.) K. Prabhakar Nayak, Manipal Institute of Tech.
 Prof. (Dr.) K.S. Rao, IIT Kharagpur
 Prof. (Dr.) K. Somasundaram, Gandhigram Rural Institute
 Prof. (Dr.) K. M. Soni, Amity University, Noida
 Prof. (Dr.) Karmeshu, JNU, New Delhi
 Prof. (Dr.) M. Madhavilatha, JNTU, Hyderabad
 Prof. (Dr.) M. M. Gore, MNNIT, Allahabad

Prof. (Dr.) Mohammad Najmud Doja, Jamia Millia Islamia
 Prof. (Dr.) Neeraj Tyagi, MNNIT, Allahabad
 Prof. (Dr.) O.B.V. Ramanaiah, JNTU, Hyderabad
 Prof. (Dr.) P. Thangavel, University of Madras
 Prof. (Dr.) P.K. Mishra, BHU, Varanasi
 Prof. (Dr.) Rajeev Tripathi, MNNIT, Allahabad
 Prof. (Dr.) R. K. Singh, MNNIT, Allahabad
 Prof. (Dr.) R. S. Yadav, MNNIT, Allahabad
 Prof. (Dr.) Rajesh Khanna, Thapar University, Patiala
 Prof. (Dr.) Rajiv Kapoor, Delhi Technological University, Delhi
 Prof. (Dr.) Suneeta Agarwal, MNNIT, Allahabad
 Prof. (Dr.) S. K. Jain, NIT Kurukshetra, Haryana
 Prof. (Dr.) S. Arivazhagan, Mepco Engineering College, Tamilnadu
 Prof. (Dr.) S. Radha, SSN College of Engineering, Kalavakkam
 Prof. (Dr.) S. Subha Rani, PSG College of Technology, Coimbatore
 Prof. (Dr.) S. Mishra, Kumaon Engg. College, Dwarahat, Almora
 Prof. (Dr.) Subir Kumar Sarkar, Jadavpur University
 Prof. (Dr.) T.N.P. Nambiar, Amrita School of Engineering, CBE
 Prof. (Dr.) VKDV Prasad, RVR & JC College of Engg, Guntur

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Events (Conference Proceeding) Sponsorship



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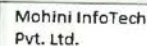
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Silver Sponsorship



On- Line webcasting

The conference is webcasted online and is sponsored by WizIQ, Online Education Partner. The link for the on-line webcasting is <http://go.wiziq.com/2qm3>

Contact Us

Dr. R. Rajesh & Dr. Prabhat Ranjan

Organizing Secretaries

International Conference on Recent Trends in Computer Science & Engineering

Department of Computer Science, Central University of Bihar

BIT Campus, P.O.- B. V. College, Patna – 800 014, Bihar, India

Email: icrtcse@cub.ac.in; Phone No. 0612-2784114/119, Phone/Fax: 0612-2226538



The Central University of Bihar (CUB) is one among the sixteen newly established Central Universities by the Government of India under the Central Universities Act, 2009 (Section 25 of 2009). The University is presently located at the premises of Birla Institute of Technology, Patna (BIT Campus, P.O.- B. V. College, Patna-800 014). The University made a modest beginning by establishing the Centre for Development Studies under the School of Social Sciences and Policy and launched a two year Master of Arts in Development Studies in the academic year 2009-2010. In the following Academic Year 2010-11, University launched five more Master Programmes in Biotechnology, Computer Science, Environmental Science, Mathematics and Statistics. Three more Master Programmes namely Bioinformatics, Communication & Media Studies and Psychology were added in Academic Year 2011-12. In Academic Year 2012-13, seven new Master Programmes namely Life Science, Economics, English, Hindi, Political Science & International Relations, Sociology and M. Tech in Computer Science were started. In last academic year 2013-14 four new courses B.A.-B.Ed., B.Sc.-B.Ed., BALLB and B.Sc.-LLB, were started. The University has offered conducive environment, adequate infrastructure support and innovative pedagogies to nurture the students.

Centre for Environmental Sciences:
The Centre for Environmental Sciences which started with 2-years Master's programme is an intensive, theoretically and practically oriented multidisciplinary programme, and aims to equip the students with critical, analytical and practical skills that will be of use in their future career, either as environmental professionals or academicians/researcher. The programme prepares students for professional careers in the areas of environmental consultancy, research, compliance, initiatives, and management. The centre intends to highlight regional and global environment research issues. Currently there are six young and mid level faculty who are dedicated researchers and made names in their respective research areas. The faculty are from diverse backgrounds representing aquatic ecology and ecotoxicology, population and evolutionary ecology of freshwater and marine organism, aquatic geochemistry, nutrient stoichiometry in aquatic ecosystems, climate change and aquatic ecosystems, natural and man-made wetlands and their management, monitoring and assessment of aquatic ecosystems and environmental biotechnology.

Patron
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All faculty members of Centre for Environmental Sciences,
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Centre for Environmental Sciences, Central University of Bihar
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National Conference
ON
Aquatic ecosystems and their Management: Recent trends and future perspectives

(21st- 23rd March, 2014)



Organized by

Centre for Environmental Sciences
Central University of Bihar
BIT Campus, PO- B.V. College
Patna (Bihar)-800014
Fax: +91-612-2226535
Email: aem.cub2014@gmail.com
Website : http://aem.cub.ac.in

Background

Aquatic ecosystems around the world are threatened due to various human activities, the current rate of coastal wetland loss are four times higher than that of tropical forests (World Bank report). The loss of wetlands poses a significant threat to aquatic biodiversity. More than 800 species of aquatic plants and animals currently threatened with extinction are found in freshwater ecosystems. Aquatic ecosystems and biodiversity have an intrinsic value and perform various ecosystem services that have economic, aesthetic and/or recreational value and hence this is worth exploring and protecting to ensure the existence of our planet. Their incessant loss has been imposing serious threat to the very human survival, particularly to the world's poor and thus for the attainment of the United Nation's Millennium Development Goals. Designing appropriate policies and strategies aiming to conservation of natural ecosystems and biological diversity, and ecologically sustainable development is not an option but an obligation.

Exploring means to feed burgeoning human population is one of the most important challenges faced around the globe, especially when ~ 60% of ecosystems and their biodiversity are degrading, compromising sustainability, wellbeing, health and security. Livelihood and food resources from aquatic ecosystems are fundamental elements to combat the obstacles. Effective conservation of aquatic ecosystems is the cheapest and most optimal option. Securing ecosystem services and restoring degraded ecosystem is a key challenge and ecological restoration is a critical component in the application of an ecosystem approach to management.

This national conference on **Aquatic ecosystems and their management: Recent trends and future perspectives, (AEM: 2014)** will be a rendezvous of researchers and academicians working on cutting-edge areas of ecosystem management, sustainable development, food security and restoration of aquatic ecosystems. This conference will provide an excellent opportunity to practitioners who would like to enhance their knowledge and interchange their ideas on sustainability and management, status of aquatic ecosystems and biodiversity, linkages between natural resources and food security, restoration of degraded aquatic ecosystems, interaction among different nutrients cycling, waste management, water management, Ecoeconomics, sustainable tourism, etc. The local theme selected for the conference is management of aquatic ecosystems with a focus on, aquatic biodiversity assessment, biomonitoring and bioremediation, biogeochemistry of nutrients and heavy metals, aquatic ecotoxicology and pollution biology, climate change, livelihood resources and food security. This conference will have brain storming sessions on strategies for aquatic-ecosystem conservation in the context of climate change and overexploitation of resources. The participants and entrepreneurs will whirlwind on new avenues to explore alternative source of livelihood resources in aquatic ecosystems on a sustainable basis.

Major areas to address:

- Groundwater pollution and its management
- Lakes and wetlands management
- River management
- Estuary and marine ecosystem
- Aquatic Biodiversity and conservation

Conference themes:

- Monitoring and assessment of aquatic ecosystems
- Recent developments in biodiversity
- Aquatic stress management
- Ecotoxicology and impact on biodiversity
- Aquatic ecosystem and climate change
- Species inventory in aquatic species
- Bar-coding in Taxonomy
- Environmental pollution and control
- Biogeochemistry and trophodynamics
- Aquatic chemistry
- Temporary and ephemeral ecosystem
- Livelihood and resources
- Ecotechnology for aquatic ecosystem management
- Environmental Impact Assessment
- Integrated Pest Management
- Bioremediation and Biomanipulation
- Ecological restoration: from wasteland to wetland
- Other related areas

Important dates:

Early bird Registration (Rs)	Late/ on the spot Registration (Rs)	Category
3000	4000	Industry, NGO and government organization
1500	2000	Delegate and Ph. D. Scholar
500	750	PG students and non-stipendiary Ph.D. scholar (on recommendation of Supervisor)

Call for papers:

Unpublished and original papers on the above theme are invited. Only good papers will be accepted after thorough plagiarism check for stage presentation. Further, based on the participant's feedback and editorial advice, selected papers will be published in Proceedings Volume (to be published after the event as a book with ISBN).

Abstract Submission:

Abstracts (300-350 words) are invited through email only in MS word format. Abstracts should specify under which category it is being submitted through email

aem.cub2014@gmail.com

(MS words; Font text: 12 double spacing left justified; Title 16 Bold; Author's name 14; Author's affiliation: 12 regular
Submission of full manuscript for proceeding: 28th March, 2014
Guidelines for Authors: Manuscript should follow APA style

Session wise list of topics

	21/03/2014	22/03/2014	23/03/2014
09:30 AM - 11:00 AM	Inauguration	Climate Change and aquatic community	Eco technology & aquatic ecosystem management
11:00 AM - 11:30 AM	Tea	Tea	Tea
11:30 AM - 01:30 PM	Monitoring of aquatic ecosystem	Biogeochemistry	Temporary & Ephemeral ecosystems
01:30 PM - 02:30 PM	Lunch	Lunch	Lunch
02:30 PM - 04:00 PM	Faunal diversity in underground water	Bar coding and taxonomy	Livelihood & aquatic resources
04:00 PM - 04:15 PM	Tea	Tea	Tea
04:15 PM - 05:30 PM	Aquatic stress management	Presentation on World Water day	Panel Discussion recommendations & Valedictory

Each session starts with keynote presentation by distinguished scholar

Submission of abstract: 28th February, 2014 (5-314)
Notification of acceptance of abstract: 12th March, 2014
Registration deadline: Early bird: 20th February, 2014
Late: Till 22nd March, 2014
Manuscript submission: 28th March, 2014
Conference Date: 21st- 23rd March, 2014



Cultural program and Local tour:

Several cultural programs related to classical and folk cultures of Bihar will be arranged for the participants. A visit for the participants and accompanying persons will be arranged to nearby areas of historical and religious importance, and museums depicting ancient Indian cultures and remains of Magadha Empire. A motor boat tour in the holy River Ganga will be arranged for participants and accompanying persons where they will have a glimpse of Gangetic dolphin.

National Conference on

AQUATIC ECOSYSTEMS AND THEIR MANAGEMENT: RECENT TRENDS AND FUTURE PERSPECTIVES

(21st – 23rd March, 2014)

Organized by

Centre for Environmental Sciences
Central University of Bihar



Call for papers & participation:

Papers, Posters, Live Projects and Models of Original Work are invited in the following major fields and allied areas

- Monitoring and Assessment of aquatic ecosystems
- Recent Developments in Biodiversity
- Aquatic Stress Management
- Ecotoxicology and Impact on Biodiversity
- Aquatic Ecosystem and Climate Change
- Species Inventory in Aquatic Species
- Bar-coding in Taxonomy
- Environmental Pollution and Control
- Biogeochemistry and Trophodynamics
- Aquatic Chemistry
- Temporary and Ephemeral Ecosystem
- Livelihood and Resources
- Ecotechnology for Aquatic Ecosystem Management
- Environmental Impact Assessment
- Integrated Pest Management
- Bioremediation and Biomanipulation
- Ecological Restoration: from Wasteland to Wetland

Keynote addresses and invited talks

by

Renowned Environmentalists, Scientists, Experts and International reputes:

Prof. C.R. Babu, University of Delhi; Dr. (Mrs) Manju Sharma, Former Secretary, Department of Biotechnology, Govt. of India; Dr. Dilip Kumar, Former Vice Chancellor, CIFE, Mumbai; Prof. T.R. Rao, IISER, Mohali; Prof. V. Subramanian, JNU, New Delhi; Prof. Y. Ranga Reddy, Acharya Nagarjun University, AP; Prof. S.C. Santra ENVIS Coordinator, University of Kalyani, West Bengal; Prof. A.J. Ramanathan, JNU, New Delhi; Prof. N. Munuswamy, University of Madras; Prof. R. Chakrabarti, University of Delhi; Prof. R. Ramanibai, University of Madras, Chennai; Prof. A.P. Sharma, Director, CIFRI (ICAF) Barrackpore, Kolkata; Prof. S.P. Roy, TN Bhagalpur University; Prof. B.K. Sharma, NEHU, Shillong; Dr. A. Arivudai Nambi, M.S. Swaminathan Research Foundation; Dr. B.C. Jha, CIFRI Barrackpore, Kolkata; Dr. Parmanand Sharma, NCAOR, Goa, India; Prof. M.P. Sinha, Ranchi University; Dr. Jaigopal Sharma, DTU, Delhi; Dr. Fayaz A Khudsar, Yamuna Biodiversity Park, Delhi.

Venue:

Central University of Bihar
BIT Campus, PO-B.V. College
Patna (Bihar)-800 014

Awards & Rewards:

Competitive section for Research scholars, Students and Young faculty: Best papers, Best posters. Best model in all tracks, Conference kit, Certificates to registered delegates
Celebration of World Water Day, 22nd March

Important Dates

Submission of abstract:

10th March, 2014

Notification of acceptance of abstract:

12th March, 2014

Registration deadlines:

Early bird: 20th February, 2014

Late: Till 22nd March, 2014

Manuscript submission: 28th March, 2014

Conference date:

21st – 23rd March, 2014

for online registration visit

Website: <http://aem.cub.ac.in>

Email: aem.cub2014@gmail.com

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ICRAMSCS-2015

International Conference on Recent Advances in Mathematics, Statistics and Computer Science
29 – 31 May, 2015

Organized by
School of Mathematics, Statistics and Computer Science
Central University of Bihar
Patna – 800 014 (Bihar), India

Conference Committees

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ABOUT THE CONFERENCE

School of Mathematics, Statistics and Computer Science, Central University of Bihar is organizing International Conference on Recent Advances in Mathematics, Statistics and Computer Science (ICRAMSCS) during May 29 – 31, 2015, Patna, Bihar, India. The vision of the ICRAMSCS is to provide a platform for sharing the innovative ideas and current trends in Mathematics, Statistics and Computer Science. ICRAMSCS provides a place for high opportunities for practitioners, corporate people, researchers and students to present ongoing research and development works in Mathematics, Statistics and Computer Science areas. It will continue to provide information on the latest trends and the developments in these ever-growing fields.

ABOUT CENTRAL UNIVERSITY OF BIHAR

The Central University of Bihar (CUB) is one among the newly established Central Universities by the Government of India under the Central Universities Act, 2009 (Section 25 of 2009). The University is presently functioning from two campuses, namely Patna (BIT Campus, P.O. – B. V. College, Patna – 800014) and Gaya (New Area Bisar, Gaya - 823001). The University shall be permanently located at Panchanpur, approximately 12 kms. from Gaya. In pursuance of its objectives and considering the emerging needs of the society, the University has been evolving different programmes ever since its inception in 2009.

The academic programmes of the University representing broad branches of knowledge are in the evolutionary process. The approved academic structure includes 14 schools: School of Mathematics, Statistics and Computer Science, School of Earth, Biological and Environmental Sciences, School of Social Sciences and Policy, School of Human Sciences, School of Media, Arts and Aesthetics, School of Language and Literature, School of Law and Governance, School of Education, etc. The University has started offering Doctoral and Master Programmes namely five-year integrated M.Phil.-Ph.D. in various disciplines from the year 2014.

Important Dates:

Deadline for Abstract Paper / Full Paper:
30 March, 2015

Notification for Acceptance:
25 April, 2015

Deadline for Final Paper:
15 May, 2015

Deadline for Registration (Authors only):
15 May, 2015

Deadline for Registration (Attendees only):
29 May, 2015

Registration Fee*:

Participants	From India	From Abroad
Industry / Academia (with paper)	Rs. 5,000	US \$200
Research Scholars / Students (with paper)	Rs. 3,500	US \$150
Attendees (without paper)	Rs. 2,000	US \$100

*Includes Conference / Registration kit, fooding and proceeding charges.

Paper Submission:

Authors are invited to submit Abstract Papers & Full Papers (4 – 6 pages) in two-column IEEE format:

http://www.ieee.org/conferences_events/conferences/publishing/templates.html,

through EasyChair:

<https://easychair.org/conferences/?conf=icramscs2015>

OR

through email: icramscs@cub.ac.in



Call for Papers		Tentative Speakers
<p>The aim and objective of the conference is to bring research experts, faculty, and research scholars on a platform where they could share and interact. It will provide opportunities to the participants to get acquainted with the expert's areas and contributions and they could undertake recent areas of research. They could also interact with the experts to develop some joint work.</p> <p>Speakers from India and abroad may be invited to give talks on the timely issues. Papers are also invited from faculty / academia / research-scholars / students on topics, but not limited to, the following:</p>		<p>Prof. G.P. Patil, Penn State Univ., USA Prof. David A. Swanson, California Univ., USA Prof. Kunio Shimizu, Japan Prof. Lal Shimpi, USA Prof. Raj Bhatnagar, Cincinnati Univ., USA Dr. Ravi Verma, Canada Dr. Sanjay Mishra, Covenant Univ., Nigeria Prof. U. Dinesh Kumar, IIM, Bangalore Prof. Ashis Sengupta, ISI, Kolkata Prof. Neeraj Misra, IIT Kanpur Prof. A.K.P.C. Swain, Bhubaneswar Prof. R.S. Srivastava, Gorakhpur Univ. Prof. V.K. Singh, BHU Prof. Anoop Chaturvedi, Allahabad Univ. Prof. Anupam Saikia, IIT Guwahati Prof. B.K. Sarma, IIT Guwahati Prof. Shri Ram, BHU Prof. Rana Barua, ISI, Kolkata Dr. Pradipta Maji, ISI, Kolkata Dr. J. Satheeshkumar, Bharathiar Univ. Dr. Bibhas Adhikari, IIT Jodhpur Dr. Soumen Maity, IISER, Pune Dr. S.N. Bora, IIT Guwahati Dr. D.K. Singh, NIT Patna Dr. Rajiv Misra, IIT Patna Dr. Ravi Shankar Singh, IIT-BHU Dr. M.P. Singh, NIT Patna</p>
Statistical Quality Control Survey Sampling Designs / Methods Probability Distributions Environmental Statistics Statistical Quality Control Biostatistics Population Studies Statistical Computing Reliability Theory Stochastic Orders Bayesian Computation Statistical Modelling Group and Semigroup Theory Finite fields Theory of Relativity Cryptography Number Theory Fractional Calculus Mathematical Modelling Algebraic Automata Theory Graph Theory Solid & Fluid Mechanics PDE & ODE (Numerical and Analytical)	Speech Processing Fuzzy Logic Neural Network Evolutionary Algorithms Nature Inspired Computing Bio-inspired Computing Bioinformatics Machine Learning Data Mining Predictive Modelling Agent Based Systems Image Processing Pattern Recognition Cloud Computing Embedded Systems Operations Research Software Engineering & Testing Computer Networks & Security Software Project Management Operating Systems Natural Language Processing Open Source Software	
<p>About Conference Proceedings: All accepted papers would be published in the conference proceedings, by a leading publisher.</p>		
<p>Sponsorship Details: Diamond Sponsorship: Rs. 1,00,000/- Platinum Sponsorship: Rs. 75,000/- Gold Sponsorship: Rs. 50,000/- Silver Sponsorship: Rs. 25,000/-</p>	<p>How To Reach Conference Venue: The conference venue is Central University of Bihar, B.I.T. Campus, (Near Patna Airport), Patna. The city of Patna is connected to all the major cities of India through Road, Railways, and Air. The campus is situated besides Jai Prakash Narayan International Airport at a distance of 1 km, and is just 8 kms away from Patna Junction.</p>	<p>About the City: The city of Patna, formally known as Pataliputra, is the capital city of Bihar state in India. It is situated on the southern bank of the river Ganga. Besides, having the campuses of IIT-P, NITP, Central University of Bihar and other recognized institutions of excellence, the city also holds some key tourist destinations which includes Patna Museum, Planetarium, etc., and places of religious importance.</p>
<p>For any queries, contact us at: Email: icramscs@cub.ac.in, arunkrsinha@cub.ac.in, rajeshr@cub.ac.in, rpsingh@cub.ac.in Phone No. 0612-2784182/118/169 Phone/Fax: 0612-2226538</p>		

