

# दक्षिण बिहार केन्द्रीय विश्वविद्यालय

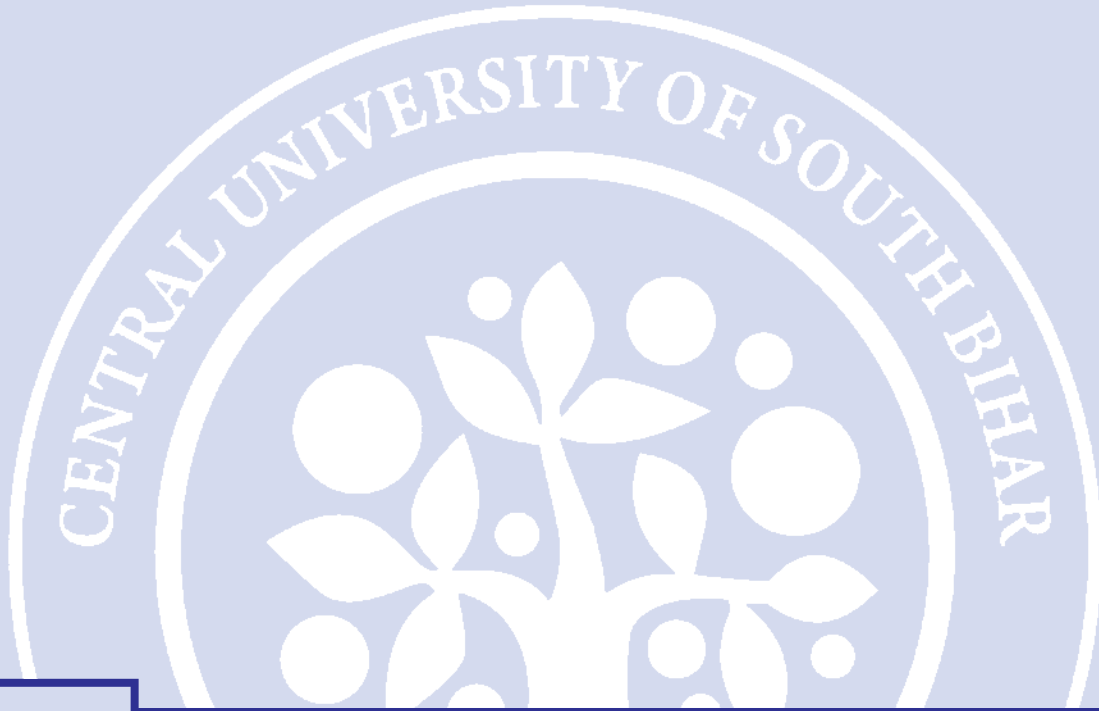
(केन्द्रीय विश्वविद्यालय अधिनियम, 2009 के अन्तर्गत स्थापित)

पूर्व में बिहार केन्द्रीय विश्वविद्यालय, एवं केन्द्रीय विश्वविद्यालय (संशोधन) अधिनियम, 2014 के अंतर्गत परिवर्तित

## CENTRAL UNIVERSITY OF SOUTH BIHAR

(Established under the Central Universities Act, 2009)

[Formerly Central University of Bihar, and since changed under the Central Universities (Amendment) Act, 2014]



# PROSPECTUS 2016

S. No	Items	Important Dates for (CUSBET-2016)
1	Availability of Application form (Online)	28 <sup>th</sup> March 2016 (Monday)
2	Last date for submission of online	30 <sup>th</sup> April 2016 (Saturday)
3	Information about the status of Application	5 <sup>th</sup> May 2016 (Thursday)
4	Final Status of the Application	9 <sup>th</sup> May 2016 (Monday)
5	Downloading of Hall Ticket	21 <sup>st</sup> May 2016 (Saturday)
6	Date of CUSBET -2016 (Online Test)	28 <sup>th</sup> and 29 <sup>th</sup> May 2016 (Saturday & Sunday)
7	Results Announcement & Admission	03 <sup>rd</sup> June 2016 (Friday)

**Note: Subject to change under unavoidable circumstances.**



### Admission cell/Help desk

Controller of Examination (CoE) - 0612-2784114  
admission@cub.ac.in, helpdesk@cub.ac.in

#### Patna Campus

**Dheerendra Singh**  
Assistant (Academic)  
Tel : 0612-2784-110/113/2226538

**Manoranjan Kumar**  
PA to CoE  
Tel: 0612-2784114  
Mob: 7543015233

#### Gaya Campus

**Pratish Kumar/Om Prakash**  
Hindi Officer  
Mob: 9572054654/9501682685

**Amit Kumar**  
Section Officer  
Tel: 0631-2210224  
Mob: 7739404812

**For any information of specific programme contact following concerned:**

Department	Name	Contact No.	Department	Name	Contact No.	Department	Name	Contact No.
Mathematics	Dr. R. P. Singh	9576418533	Environmental Science	Dr. Pradhan P. Sarthi	8809081834	Sociology	Dr. Jitendra Ram	9546319718
Statistics	Dr. Richa Vatsa	8969760678	Communication & Media Studies	Dr. Kinshuk Pathak	9097723353	Psychology	Dr. Narshingh Kr.	9835832717
Computer Science	Sri Nemi C. Rathore	8969408797	Development Studies	Ms. Anju H. Bara	8298863335	English	Sh. Suresh Kurapati	9546337570
Biotechnology	Dr. Rizwanul Haque	8581800619	Pol. Science & Int. Relations/ B.Voc.	Dr. Alok Kr.Gupta	8986819079	Hindi	Dr. Rabindra Kr. Pathak	9801091682
Bioinformatics	Dr. Vijay Kr. Singh	7759854762	Economics	Dr. Abodh Kumar	9693582788	Education	Dr. Kaushal Kishore	9473294769
Life Science	Dr. Gautam Kumar	8294336691				Law	Dr. Pradip Kr. Das	9546380976

## Message from the Chancellor

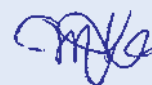


**Smt. Meira Kumar**  
Chancellor

I am happy to learn that Central University of South Bihar is bringing out a new prospectus for 2016-17 academic session. In a short time of five years, the Central University has made rapid progress in many directions. New departments have been opened including B.Voc Arts and Crafts and several qualified faculties have been appointed. The admission and entrance procedures are now online.

Inclusive and holistic growth of students is of immense importance at CUSB. Various teaching methodologies used by expert faculties provide a stimulating environment that makes the students comfortable and eager to learn. They benefit not only from a wide range of applied and hands-on learning experiences, but are also exposed to outreach projects, and research internship to gain first-hand knowledge. Community programmes such as SMILE give them platforms to work for social causes. Under these, many deprived and drop-out children have been brought into the mainstream education system. Multiple level supports such as scholarships, separate hostel facilities for men and women, transport, healthcare, medical insurance and counselling are available to the students to make them feel secure and at ease. I am told that the Central University has taken a laudable decision to record faculties' lectures and make them available to the students. Above all, the 300-acre campus at Panchanpur, Gaya, which is likely to be completed in near future would give student an excellent learning environment, as we strive to make this University one of the most respected institutions of higher education.

We at Central University of South Bihar look forward to welcome the students for the new session.



**Meira Kumar (Smt.)**

## From the Desk of Vice-Chancellor



**Prof. Harish Chandra Singh Rathore**

DAAD & Humboldt Fellow

It gives me immense pleasure to communicate to you and share my vision and expectation. This is my first interaction through prospectus after taking over as the Vice-Chancellor of Central University of South Bihar.

In less than six months of my joining, the university has started creating its own infrastructure and very soon one Boys' Hostel, one Girls' Hostel, Administrative Building, one block for Lecture Halls, one block for School of Earth, Biological and Environmental Sciences, and another block for School of Social Sciences and Policy will come up. We hope to move very soon to our own campus so ambitiously planned. Besides, the university has selected bright faculty members in two phases. Today, the university has a strong faculty of Professors, Associate Professors and Assistant Professors of high academic calibre. The university maintains 1:12 teacher-student ratio. The university has also appointed its full term Registrar, Finance Officer and Controller of Examinations.

There is an utmost effort to ensure quality teaching and research in the university. Further, the university is committed to ensure inclusive access for students without any discrimination in terms of caste, colour, religion or region. This university embarks on new innovative courses that are highly relevant in modern economic scenario. Besides allowing flexibility in choice of courses under the Choice Based Credit System, the university provides optimum learning through a very transparent system of continuous assessment. The highly qualified faculty, many of them having exposure of foreign universities, ensures course delivery at the frontiers of new knowledge. The students have the opportunity of enriching their learning experience through a free access to Wi-Fi and a very rich library with access to more than 8000 online journals of high repute. The university assures full support to all its students to realize their potentials to the fullest.

I have already spoken to the Government of Bihar and very soon this university shall groom and train students that would find ready recruitment in Bihar State Government system.

While releasing this prospectus, I appeal to all the potential students seeking admission to this Central University, which is the first of its kind in the State, to work hard sincerely as there is no substitute for merit and hard work. The office of this Vice-Chancellor is always inclined to facilitate the students.

With best wishes,

A handwritten signature in green ink, appearing to read 'Harish Chandra Singh Rathore', written over a horizontal line.

**(Harish Chandra Singh Rathore)**

## Central University of South Bihar at a Glance

The Central University of South Bihar (CUSB) 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 currently located in two campuses: Patna Campus at Birla Institute of Technology, PO: B. V. College, Patna, 800014, and Gaya Campus at Vinova Nagar, Chandauti (A. N. Magadh Medical College), Ward No. 29, Gaya 823001. The permanent campus is coming up at Panchanpur, about 12 kms. away from Gaya railway station.



As stated in Section 5 of the Act, the objective 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, 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."

In pursuance of its objectives and considering the emerging needs of the society, the University has grown up through different academic programmes since its inception in 2009. It made a modest beginning by establishing the Centre for Development Studies under the School of Social Sciences and Policy which offers two year Master of Arts programme in Development Studies. In the following academic year 2010-11, the University launched five more PG programmes in Biotechnology, Computer Science, Environmental Science, Mathematics and Statistics. Three more Master's programmes namely, Bioinformatics, Communication & Media Studies, and Psychology were added in the academic year 2011-12. In the academic year 2012-13, seven new Master's

programmes, namely, Life Science, Economics, English, Hindi, Political Science & International Relations, Sociology and M.Tech. in Computer Science were offered. In 2013-14, four year Integrated BA.BEd and BSc. BEd programmes were started under the School of Education and five year Integrated BA.LLB (Hons.) & BSc.LLB (Hons.) under the School of Law and Governance. B.Voc. programme in Arts and Crafts under the School of Vocational Studies was initiated in the session 2015-16. The University is launching two year M. Ed. and one year LLM programmes from academic session 2016-17. Ph. D. programmes are being run in all disciplines. The University has also planned to start B.Ed. in Yoga and other programmes in Yogic Science from the next academic session. It has also decided to establish a School of Management and to start Department of Commerce and Department of Business Studies in near future.

Along with world class faculty, high teacher-student ratio, baskets full of elective courses in different programmes, the University offers Choice Based Credit System



(CBCS) with total internal evaluation of students' performance. Conducive and research oriented environment with multidisciplinary approach, innovative pedagogies, promising infrastructural facilities and effective students' support system to nurture the students' personality holistically and to prepare them for future are its' main features. A number of students have qualified JRF/NET, GATE and GRE, and secured significant places in industry and institutes of international repute, and have also won accolades in various fields.

### Salient Features

**1. Semester System:** Semester system is followed for all academic programmes to enlarge curricular space and encourage accelerated learning opportunities. This system further enhances ability to accommodate diverse choices that dynamic and motivated students may like to have. As per the requirements of the academic programmes, decisions regarding student-faculty contact hours during a semester, developing the credit system determining the quantum of learning, time-distribution on

class room work, elements of participatory teaching-learning process, field-work, lab-work, workshop, seminar, excursion, internship and other curricular works are taken by the academic bodies of the University. The University has introduced summer Internship for various programmes keeping in view the important role of practice based learning. It provides opportunities to students to gain experience in their field

**2. Choice Based Credit System (CBCS):** CBCS has some unique features like enhanced learning opportunities, ability to match student's scholastic needs and aspirations, horizontal intra and inter School/Centre mobility of students, inter-institutional transferability of students, improvement in educational quality and excellence, flexibility for working students to complete the programme over an extended period of time, and innovation and comparability of educational programmes across the country. CBCS facilitates vertical integration of knowledge and holistic development.

**3. Evaluation System:** Continuous Internal Evaluation (CIE) is the central feature of the evaluation system of this University. The teacher who offers the course is the best person to assess the performance of his students. However, there is an End-semester evaluation, and to ensure transparency and accountability, appropriate mechanisms have been devised.

**4. Infrastructure and Ambience:** All appropriate steps are taken to create and maintain infrastructure for quality teaching and research as per requirements. The university has digitalized library, modern labs, smart class rooms, separate hostels for boys and girls, and transport system. Its 300 acre campus is coming up fast at Panchanpur, Gaya.

**5. Faculty Members :** The University has a strength of about 100 faculty members that include highly qualified eminent personalities and former vice-chancellors of universities as its senior faculties. About 95 percent faculty members are Ph.D./D.Litt. degree holders and postdoctoral experiences at established laboratories in India and abroad. Coming from different states of the country they form a truly pluralistic group of academics.

**6. e-Governance and Decentralized System:** The University has been evolving decentralized, dynamic and transparent governance and need-based capacity-building system. It is moving towards e-governance and continuous training of the personnel to make the University system 'user-friendly'. Professional development of educational administrators is a necessary component for the capacity building of the University administration.

**7. Planning and Development:** The Planning and Development Board with appropriate powers and functions is instituted as per the guidelines of the UGC. It is responsible for development of the infrastructural facilities.

**8. Admission and National Character:** UGC guidelines are followed in the admission process and the admission test is conducted on an all India basis.

**9. Central University of South Bihar Entrance Test (CUSBET) 2016:** An on-line Entrance Test is conducted throughout India at different centres for admission to the various programmes offered. The medium of the on-line test is English except for the Language Test and the courses offered in the Centre for Indian Languages.

**10. Ph. D. Programme:** From academic session 2016-17 the university has introduced direct Ph.D. programme in all the departments.

**11. Scholarships:** All research students get scholarship. Besides, the University has several types of scholarship schemes as described in detail in the relevant pages of this prospectus.

**12. Student Support System:** Multiple level support is provided to students, such as computing, lab, library, hostels, mess, transport facilities, etc. There are various forums and committees such as Psychological Counselling Forum, Grievance Redressal Cell, SC/ST/OBC/ Minority Cell, Anti-discrimination Cell, and Anti-ragging Committee to help students.

**13. Feedback evaluation:** The University teaching system is constantly evolving with feedback from students.

**14. Students' Achievement:** The University has a good track record of students qualifying for UGC-CSIR, GATE, GRE and other national and international examinations and winning awards in various educational events and other competitions. Students have been placed in many organizations of national repute.

**15. Quality Management:** The Internal Quality Assurance Cell (IQAC) is established to ensure progressive improvement in efficiency of the University functioning.

## Schools & Academic Programmes at a Glance

Name of School/ Centre/ Department	Programmes <sup>s</sup>	Intake *	Eligibility
<b>School of Earth, Biological and Environmental Sciences</b>			
Centre for Biological Sciences	M.Sc. in Bio-informatics	25	Bachelor degree in Mathematics/ Physics/ Chemistry /Biological Sciences/ Computer Science/ Information Technology/Agricultural Science/ Pharmaceutical Science/ Veterinary Science/ Medical Science with 55% marks for General/OBC candidates and 50% marks for SC/ST candidates in the qualifying degree.
	Ph.D. in Bio-informatics	11	Master Degree in Chemical, Physical, Biological or Computer Science / Information Technology/ Agricultural Science/ Pharmaceutical Science / Veterinary Science/Medical Science with 55% marks for General/OBC candidates with 50% marks for SC/ST candidates in the qualifying degree. Candidates having Master Degree in any of the above discipline with specialization in Bioinformatics or having Master degree in Bioinformatics will be given preference.
	M.Sc. in Biotechnology	25	Bachelor degree in Biotechnology or any branch of Life Science (Microbiology, Biochemistry, Bioscience, Environmental Science), B. Sc. (Hons) in Zoology, Botany & Chemistry or B.Sc. three year pattern with any of the two subject among Zoology, Botany & Chemistry in 3 <sup>rd</sup> year. Candidates must have minimum of 55% marks for General/OBC candidates and 50% marks for SC/ST candidates in the qualifying degree.
	Ph.D. in Biotechnology	09	Master Degree in Biotechnology/ Pharmaceuticals Science/ Medical Science/ Agricultural Science/ Chemistry/Physics/ any branch of Life Science (Microbiology, Biochemistry, Molecular Biology, Bioscience, Environmental Science / Zoology /Botany) with a minimum of 55% marks for General /OBC candidates and 50% marks for SC/ST candidates in the qualifying degree.
	M.Sc. in Life Science	25	Bachelor degree in any branch of Life Science (Botany, Zoology, Microbiology, Biochemistry, Biosciences, Biotechnology, Environmental Science, Agricultural Science) with a minimum of 55% marks for General/OBC candidates and 50% marks for SC/ST candidates in the qualifying degree.
	Ph.D. in Life Science	05	Master Degree in any branch of Life Science (Botany, Zoology, Microbiology, Biochemistry, Biosciences, Biotechnology, Environmental Science, Agricultural Science/Plant Science) with a minimum of 55% marks for General/OBC candidates and 50% marks for SC/ST candidates in the qualifying degree.

Centre for Environmental Science	M.Sc. in Environmental Science	25	B.Sc.in all basic science subjects such as Zoology, Botany, Physics, Chemistry, Life Sciences, Geology, Geography, Agricultural Science, Environmental Science and other allied subjects with 55% marks for General /OBC candidates and 50% marks for SC/ST candidates.
	Ph.D. in Environmental Science	08	M.Sc./M. Sc. (Tech)/ M. Tech in Geophysics/ Atmospheric Science/ Meteorology/ Environmental Science/ Biotechnology/ Zoology/ Botany/ Biochemistry/ Microbiology/ Biodiversity/ Conservation Biology/Environmental Biotechnology/ Environmental Chemistry/ Environmental Engineering with 55% marks for General /OBC candidates and 50% marks for SC/ST candidates.
<b>School of Education</b>			
Centre for Education	Four Year Integrated BA. BEd	50	10+2 or equivalent examination in any stream from any recognized Board/ University with at least 50% marks for General / OBC and 45% marks for SC / ST candidate.
	Four Year Integrated BSc. BEd	50	10+2 or equivalent examination in Science stream from any recognized Board/ University with at least 50% marks for General/OBC and 45% marks for SC / ST candidate.
	M.Ed. in Education	50	Four Year Integrated BA.BEd./BSc.BEd. or B.Ed. degree from any recognized University/Institution with at least 50% marks or equivalent grade for General/OBC category and 45% marks for SC/ST candidates.
	PhD in Education	09	PG in School Subject -55% , B.Ed.-55%, M.Ed.-55% marks for General/OBC category and 45% marks for SC/ST candidates in the qualifying degree.
<b>School of Human Science</b>			
Centre for Psychological Sciences	M.A. in Psychology	25	Bachelor Degree with Psychology/ Human Sciences/Social Sciences/ Life Sciences/ Medical Science/ Engineering with a minimum of 50% marks for General /OBC candidates and 45% marks for SC/ST candidates.
	PhD in 1. Psychology 2. Clinical Psychology	10	Master degree in Psychology with minimum of 55% marks for General /OBC candidates in the qualifying degree.
			M.Phil-Clinical Psychology degree from an Institute/University recognized by Rehabilitation Council of India. Candidates should be registered with RCI or produce a satisfactory proof that they have applied for registration with RCI and their registration is in process.
<b>School of Languages &amp; Literature</b>			
Centre for Foreign Languages	M.A. in English	30	Bachelor Degree in any discipline having English as a compulsory subject (Hons./ General) with a minimum of 50% marks for General / OBC candidates and 45% marks for SC/ST category candidates in the qualifying degree.



	PhD in English	06	Minimum 55% marks in MA English (Literature/Linguistics) for General/OBC category candidates and 50% marks in MA English (Literature/Linguistics) for SC/ST category candidates.
Centre for Indian Languages	M.A. in Hindi	30	Bachelor Degree in any discipline with a minimum of 50% marks for General / OBC candidates and 45% marks for SC/ST candidates in the qualifying degree.
	PhD in Hindi	09	Candidates with at least 55% marks (50% for SC/ST) in Master's Degree in Hindi
<b>School of Law &amp; Governance</b>			
Centre for Legal Studies	Five Year Integrated BA.LLB (Hons)	60	10+2 or equivalent examination in any stream from any recognized Board/ University with at least 45% marks for General /OBC and 40% marks for SC / ST candidates.
	LLM	20	Passed with 50% marks in the final examination of Bachelor's Degree in Law, approved by the Bar Council of India, conducted by a University/ Colleges duly recognized by the UGC.
	Ph.D. in Law	11	Minimum 55% marks in LLM for General/ OBC category candidates and 50% marks for SC/ST category candidates
<b>School of Media, Arts &amp; Aesthetics</b>			
Centre for Mass Communication & Media	M.A. in Communication & Media Studies	25	Bachelor Degree in any discipline with a minimum of 55% marks for General/OBC candidates and 50% marks for SC/ST candidates.
	Ph.D. in Communication & Media Studies	09	M.A./ M.Sc. in Mass Communication & Journalism or any related subject from recognized University with 55% marks for General / OBC candidates and 50% for SC/ST candidates.
<b>School of Mathematics, Statistics &amp; Computer Science</b>			
Department of Computer Science	M.Sc. in Computer Science	25	Bachelor's Degree in Science (CS/IT/Electronics with Mathematics) / BCA with a minimum of 55% marks for General /OBC candidates and 50% marks for SC/ST candidates in the qualifying degree and having Mathematics as a subject at 10+2 level
	M.Tech. in Computer Science	18	B.E./B.Tech./B.Sc. Engineering (CS/IT/ Electronics/Electronics & Communications) or M.Sc.(CS/IT/Electronics) or MCA with 60% marks for General/OBC candidates and 55% marks for SC/ST candidates with a valid GATE score as well.
Department of Mathematics	M.Sc. in Mathematics	25	Bachelor Degree with Mathematics/ Statistics but should have studied Mathematics as a subject in all the 3 years with a minimum of 55% marks for General/ OBC candidates and 50% marks for SC/ ST candidates in the qualifying degree.

	Ph.D. in Mathematics	06	Master Degree in Mathematics with a minimum of 55% marks for General/OBC candidates and 50% marks for SC/ST candidates in the qualifying degree
Department of Statistics	M.Sc. in Statistics	25	Bachelor Degree with Statistics/ Mathematics /Computer Science but must have studied both Mathematics and Statistics as subjects for at least 2 years with a minimum of 50% marks for General / OBC candidates and 45% marks for SC/ST candidates in the qualifying degree.
	Ph.D. in Statistics	06	Master's Degree in Statistics/Applied Statistics/Agricultural Statistics/ Biostatistics following the existing UGC criteria & guidelines
<b>School of Social Sciences &amp; Policy</b>			
Centre for Development Studies	M.A. in Development Studies	30	Bachelor Degree in any discipline with a minimum of 55% mark for General / OBC candidates and 50% marks for SC/ST candidates in the qualifying degree.
	Ph.D. in Development Studies	07	Masters degree in any social science discipline with 55% marks for General/OBC & 50% for SC/ST candidates.
Centre for Economic Studies & Policies	M.A. in Economics	30	Bachelor Degree from a recognized university having Economics/Commerce as a subject (Hons./General) with a minimum of 55% marks for General / OBC candidates and 50% marks for SC/ST candidates or Bachelor Degree in any other subjects having Mathematics/ Statistics as a subject with at least 60% marks for General/ OBC candidates and 55% marks for SC/ST candidates.
	Ph.D. in Economics	06	M.A./M.Sc. in Economics/any related subjects from a recognized University with 55% marks for General/OBC and 50 % for SC/ST candidates
Centre for Political Studies	M.A. in Political Science & International Relations	30	Bachelor Degree in Arts/ Social Sciences / Humanities with a minimum of 50% marks for General / OBC candidates and 45% marks for SC/ST candidates in the qualifying degree.
	Ph.D. in Political Science & International Relations	15	M.A. in political sciences /any related subjects with 55 % Marks for Gen/OBC and 50% for SC/ST
Centre for Sociological Sciences	M.A. in Sociology	30	Bachelor Degree in any subject with a minimum of 50% marks for General / OBC candidates and 45% marks for SC/ST candidates.
	Ph.D. in Sociology	14	Master's Degree in any subject with minimum marks of 55% for General/OBC candidates and 50% marks for SC/ST candidates.
<b>School of Vocational Studies</b>			
Centre for Vocational Studies	B.Voc. (Arts & Crafts)	25	10+2 or equivalent examination in any stream from any recognized Board/ University.

\$ - One or many of these courses are likely to be shifted to University New Campus at Panchanpur, Gaya,  
**Revised regulations and ordinance for PhD program is in process and will be made available soon on  
University Website.** \* University reserves the right to reduce the number of intake

## Facilities

### Library

Central University of South Bihar has developed a well-equipped central library in both the campuses (Patna and Gaya) to cater to the information requirements of students and faculty for their academic accomplishments. The library has built a collection of more than 25,000 books to support academic curricula, teaching and research in various science and social science subjects. All the books are barcoded and are organized on shelves using Dewey Decimal Classification Scheme (DDCS). An Online Public Access Catalogue (OPAC) of library books along with a Digital Library is made available for reader on every computer in the University premises.

### *Journals and Databases*

The library subscribes to 103 quality print journals and magazines of renowned publishers from across the world and more than 8,000 online journals. Being a member of UGC-INFONET Digital Library Consortium now merged in e-ShodhSindhu: Consortium for Higher Education Electronic Resources, more than 4000 e-journals are available to the library from Springer, Taylor & Francis, Annual Reviews, Project Muse, Wiley-Blackwell, Oxford University Press, Cambridge University Press and Science Direct's 10 subject collections from Elsevier Inc. The library also subscribes various e-journals packages i.e. IEEE (ASPP+ POP) from IEEE and ACM, Digital Library Package from ACM, USA for Computer Science. Besides, the library also subscribes many online databases, Manupatra - (full text database for Law), MathSciNet—a bibliographic database for Mathematical Sciences, JSTOR - full-text database mainly for Social Sciences, Indiatat – a statistical database for Development Studies, and JCCC – a general purpose bibliographic database.

### *Library Services*

The library is open from 9:00 am to 6:00 pm on all working days and Saturdays. Library services include circulation (issue/return) of books, Inter-Library Loan through DELNET, New Delhi, Current Awareness Service (CAS) for books and journals, photocopy etc. Using OPAC, users can search for availability of books in library, current status of books, due date of return, reserve/hold book, etc. Access to all electronic information resources is available for students, faculty and officials on their computer within the university premises. Recently, access to these resources has been extended through Virtual Private Network (VPN). Faculty members can access online resources from anywhere. This facility is proposed to be extended, in near future, to students as well.

### Central Computing Facility (CCF)

Computer system facilitates a common computational resource for the academic programmes as well as computing resources in the University. The computer lab provides a central computing facility to the students, teachers and staff of the University for their assignments, projects, dissertation and research related works. In the computer lab, printing and scanning facilities are provided.

### *Internet & Intranet*

Internet connectivity is provided under the scheme of National Mission on Education through Information and Communication Technology (NME-ICT) project of Government of India. All computers are connected through 1 Gbps Internet connectivity. The Intranet network, consisting of gigabyte Ethernet and OFC backbone provides connectivity to departments/centres, library, classrooms and administration. World class networking product of CISCO has been installed in campus network to provide stable and hassle free computing. All class rooms are equipped with multimedia projector, desktop computer with Internet access.

### *Resources*

At present, there are over 500 high performance computers in the University. All computers are equipped with latest operating system and application software to cater to the academic needs. Computers are protected by firewall and reliable antivirus software against computer virus, malware and unauthorized access. University has licensed copies of software such as SPSS, MATLAB, MINITAB, Adobe Creative Suite, QuarkXPress, KOHA, Windows Server 2008R, Red Hat etc. The University has powerful online UPS to protect the computer and other sensitive devices from power fluctuation and surge.

### *E-Learning Tool (A-View)*

Under the NME-ICT scheme, A-VIEW Classroom has been providing opportunity to connect several universities together and create a virtual world for students. It also acts as a Knowledge Café where students can discuss the lecture after the live class.

### *Website & e-mail Facility*

A fully functional website of the university has been developed. It is maintained and updated regularly. URL of website is [www.cub.ac.in](http://www.cub.ac.in) or [www.cusb.ac.in](http://www.cusb.ac.in). The University has a powerful e-mail system with group mail IDs of students and faculty members.

## Accommodation

Separate hostels for boys and girls are maintained. Limited hostel and limited mess facilities for students are available at present. A booklet containing Rules and Regulations regarding discipline and conduct in the University hostel and mess are given to the students at the time of admission.

## Transport Facility

The University provides transport facility to all students to commute from hostels to the university departments/centers daily. The facility can be availed by paying marginal fee.



## Health Centre

The University health centre provides treatment on a nominal fee for general ailments under the supervision of resident doctors. Regular visit of doctors is scheduled.

## Vidyarthi Mediclaim Policy

Vidyarthi Mediclaim for students is a unique policy of National Insurance Company designed to provide health and personal accident cover to the students. All the students of the Central University of South Bihar are insured under this scheme whereby they are eligible for cashless treatment in authorized hospitals as well as for reimbursement of cost of treatment in other hospitals within the limit of ₹ 50,000.

## Student Support

### Scholarship Schemes

A number of scholarship schemes, as given below, are available for deserving and needy students :

### 1. Merit Scholarship to CUSBET/ Semester Toppers

The University offers performance based Merit Scholarship to CUSBET/ semester toppers under each programme in the University. Merit Scholarship @1,000 pm is awarded subject to minimum 75% class attendance in following semester.

### 2. Merit-cum-Means Scholarship

The University encourages and supports the meritorious students who are in need of financial assistance to pursue their studies smoothly through Merit-cum-Means Scholarship. The scholarship is awarded in the form of waiver of tuition fee upto 20% of students in each programme.

### 3. GATE Scholarship

The University offers scholarship to its GATE qualified students admitted in M.Tech. programme. GATE qualified students are provided AICTE scholarship (subject to extension of approval from AICTE for 2015-17 batch) as per guidelines of AICTE.

### 4. 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. Under the scheme, a student may be assigned a task for a maximum of 10 hours per week. This includes assistance in library, computer lab, laboratory, faculty, centre/department, office, Placement section and other specific requirements. Students are also provided with an experience certificate. Details in this regard may be obtained from the Academic section.

### 5. Attendance Based Merit Scholarship

An innovative scheme to increase classroom attendance is available for the students. Students achieving 100% attendance during a semester are provided book(s) of their choice/need or reimbursed up to 1,000 at once.

## 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.

## Career Counselling and Placement Cell

The University has a Career Counselling and Placement Cell which takes care of the campus placements and job

opportunities for the students enrolled in various courses under different Centres and Departments. Some of the key responsibilities of the Career Counselling and Placement Cell are:

- (i) To organise the job-oriented awareness related workshops time-to-time for the university students.
- (ii) To provide placement training to students with sessions on Resume / CV writing, conducting mock interviews, group discussion, etc.
- (iii) To invite the experts from corporate organisation for interactive sessions, lectures on soft skills and providing placement training to the students.
- (iv) To disseminate the job opportunities related information in the concerned (related) centres / departments.
- (v) To organise job fairs / career related fairs for the job seekers in the university premises.

### Student Welfare Board

The Dean, Student Welfare is responsible to look after the general welfare of students outside classrooms, which contribute to the growth and development of their personality.

The office of Dean also performs duties and functions in respect of the following matters in consultation and coordination with other concerned officers and units of the University:

- (a) arrangement of facilities for educational tours and excursions and participation in sports activities outside the University;
- (b) organization of social and cultural activities with student participation;
- (c) organization of student bodies in the University and their functioning;
- (d) student-teacher relationship;
- (e) financial aid to needy students and students' concession for travel and other facilities;
- (f) facilitating securing of fellowships or scholarships for further studies in the country or abroad;
- (g) health and medical services;
- (h) student counseling;
- (i) special arrangement to be provided, if any, to women students, and differently abled students;
- (j) liaison between University administration and students;
- (k) student-information services;
- (l) alumni association;
- (m) issue of certificates as authorized and delegated by the Vice-Chancellor

### Anti-Ragging Cell

Following the UGC regulations 2009 on curbing the menace of ragging in higher educational institutions, ragging in all its forms has been totally banned in the entire University including its departments/centres all its premises (academic, residential, sports, canteen etc.), whether located within the campus or outside and in all means of transportation of students. CUSB takes strict action against those found guilty of ragging and/or abetting.



### Educational Tours

For educational tours organized as per the course requirements, The University may provide financial assistance, if required, to students in the form of one-time to and fro non-AC sleeper class rail fair by the shortest route. For routes not connected by railways, travel assistance equal to the actual bus fare may be provided.

### Sports

The University Sports Committee is coordinated by sports committee chairperson, at Gaya and Patna campuses to organize various sports events throughout the year. The University provides sports schedule in the academic calendar, which is distributed to all the students at the beginning of the academic year. University Sports Committee conducts various sports activities for both boys and girls throughout the academic year.

### Cultural Activities

CUSB for the past 6 years has been organizing several cultural events where the students actively participate and perform.

### Grievance Redressal Cell

The University has provided mechanism to students for the redress of their grievances made in their

complaints about academic and non-academic matters related to assessment, victimization, attendance, charging of fees, conducting of examinations, harassment etc.

### **SC/ST/OBC Minority Cell**

The University is committed to provide assistance to the SC/ST and minority students through SC/ST/OBC Minority Cell. The major purpose is to implement and monitor the reservation policy and address the problems of the students and to bring them at par with the main stream students by providing them teachers with expertise and specialization in the subjects where they lack.

### **Equal Opportunity Cell**

With the purpose to eliminate discrimination and create awareness about it, as per UGC guidelines, The University has constituted an Equal Opportunity Cell headed by an anti-discrimination officer of the rank of Professor.

### **Women Task Force**

The University has constituted a Task Force for Women to provide security and protection to the women in the University campus and the hostels, and to ensure safe working and learning environment to enable them to conduct their professional and academic activities.

### **SPARSH**

The University has set up Sensitization, Prevention and Redressal of Sexual Harassment (SPARSH) for the prevention of sexual harassment in the University under UGC (Promotion of Equity in Higher Educational Institutions) Regulations 2012. SPARSH provides campus environment free of gender-based discrimination, sexual harassment and other acts of gender-based violence and creates awareness about it.

### **Proctorial Board**

The Proctorial Board of the University ensures and maintains discipline on the campus and makes cordial atmosphere amongst students through observation of general conduct of the students.

## **Healthy Practices**

### **Unnat Bharat Abhiyaan**

Universities are the centres of higher learning and they serve as catalysts for social development and change. Unnat Bharat Abhiyaan, launched by the government, is an important initiative to revitalize and develop the rural India through the support of institutions of higher learning. The University is located in one of the most backward regions and it is our responsibility to bridge the gap between rich and poor, rural and urban and bring transformation in the rural development of the region. University has adopted a few villages near Panchanpur and it is looking into the key issues like education, health and sanitation, entrepreneurship and agriculture. It aims to uplift the nearby villages and make them self-sufficient.

### **Legal Aid Clinic**

The importance of Legal Aid and Awareness Campaigns as a mechanism for social progress is something that has been repeatedly stressed upon by the Government of India. In the backdrop of poverty and inequality, legal aid is an effective way towards attainment of the ideals of 'Social, Economic and Political' Justice that are enshrined in our Constitution under the Directive Principles of State Policy. Imparting legal awareness is the first step towards ensuring prompt and effective access to justice. Keeping this in mind, the Bar Council of India mandated all law colleges and universities in India to establish and run legal aid centres or clinics. The idea was to fulfil certain standards of legal education, but more importantly, it was also aimed at engaging the students in serving their community by promoting legal awareness through these legal aid clinics and programmes. The entire purpose of setting up nationwide collegiate clinics is to acclimatize several thousand law students of the nation to the problems faced by the masses ignorant about their rights and remedies under the law. The School of Law and Governance, CUSB Legal Aid Clinic is one successful beacon. The clinic functions by organising legal literacy camps, seminars, legal counselling, public speaking, poster making, street plays, liaisoning with Legal Services Authorities and through various other communicable mediums.

## Blood Donation Camp

The University organizes Voluntary Blood Donation camps with the help of Red Cross Society regularly at the University campus. The students, faculty and non-teaching staff participate in this indoor blood donation camp every year .

## Study Circle

The Students Study Circle, "Renaissance", is set up by the University at CUSB, Patna campus. The motive of the study circle is to enlighten students and spread knowledge about the specific events through organizing seminars, debate competitions and other similar kinds of activity within the University campus.

## Smile Group

SMILE is a voluntary social service group mostly initiated by the students of political science. The aim of this initiative is to research into the problems of the under-privileged children and inspire them and to solve their problems by motivating them with the cooperation of parents, teachers and society. The members visit schools and students catchment areas on selected days, and donate stationary and other pertinent study items, interact with the children and study their cases and encourage them to involve in curricular and co-curricular activities

## Admission Policy

1. No candidate shall be eligible to register for a fulltime programme of study if s/he is already registered for any full-time programme of study in this University or any other University/Institution or is in full time employment.
2. To decide policy matters on admission and to oversee the admission process, there is the 'University Admission Teaching and Evaluation Committee (UATEC)'. The Admission Committee governed by UATEC takes appropriate steps for admission in various programmes.
3. The UGC guidelines and Government of India directives regarding reservations in admission are followed.
4. Every year before the commencement of the



Entrance Test, the information is advertised well in advance both in print and electronic media. The final merit list is prepared from CUSBET On-line Test. The admission is given based on the merit list and following the reservation policy. From academic session 2016-17 the University has discontinued written test and interview that earlier used to follow the entrance test.

5. The fee structure for different programmes is devised by the Academic Council.
6. In the event of a student withdrawing admission, the issue of refund of tuition fee, etc. to the student is decided in the light of the MHRD circular and University policy in this regards.
7. Important dates related to the admission are announced by the University. The University holds the right to cancel the application and admission of any candidate for wrongful submission of facts pertaining to qualifications, reservation and/or any other matters.
8. Any complaint or grievance regarding the admission may be made in writing to the University Admission Committee.

## Reservation in Admissions

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. Besides, candidates belonging to differently abled category, (i.e., visually handicapped, hearing impaired and orthopedically handicapped category), Kashmiri migrants, and wards of Defence Personnel are also entitled to supernumerary reservation of 1% each, i.e. in total 3%, as per UGC/Government of India guidelines.

## General Information for Admission / Entrance Test

1. Students shall be admitted in programmes as per the Admission Policy of the University. *Regular updates are available in the University website.* All eligible candidates must report for the admission test to the respective test centre(s) on their own and *according to the schedule.*
2. Admission to the programmes in this University shall be subject to applicant fulfilling the eligibility conditions. It is the applicant's responsibility to ensure that s/he fulfils the eligibility criteria for a particular programme as mentioned in CUSB Prospectus.
3. The applicant must have appeared in the final examination. Applicants awaiting result in the qualifying examination may also apply. However, their admission shall be subject to minimum eligibility marks in the qualifying examination and they may be allowed to seek admission only on production of their final year mark sheet on or before the last date of admission.
4. Candidates should follow instructions from University website: [www.cub.ac.in](http://www.cub.ac.in) Frequently Asked Questions (FAQs) are available on the CUSB website and also at the *end in this Prospectus.*
5. Admission to the Central University of South Bihar is governed by the Central Educational Institutions (Reservation in Admission) Act.
6. High School level knowledge of Mathematics, Computer literacy and good communication skills in English language are desirable for all the programmes.
7. Short-listed candidates based on Entrance Test scores, *will be called for counselling and admission.*
8. Candidates expelled from any other Board/ Institute/University or dismissed from Government service on disciplinary grounds and those who are known to have been involved in acts of crime and gross indiscipline or misconduct shall not be eligible for admission. The University may approach the police for verification in this regard. After the admission, if anybody is found guilty in this regard, s/he shall have to quit the university.
9. Central University of South Bihar reserves the right to launch or drop any academic programme at any appropriate stage.
10. Medium of the Entrance Test is English, except for MA in Hindi.

11. Process of Admission:

- **Entrance Test (Total Marks = 150)**
- **Objective (Online) Test for 2 hrs 15 min with 150 Questions (each question carries 1 mark ) for UG, PG, PhD Programme**

### **Part - A: Subject Knowledge (100 Marks)**

**Part- B: Language Skill (Hindi/English) (20), General Awareness/ General Knowledge (10), Reasoning (10) and Mathematical aptitude (10) = 50 Marks**

## NOTES

1. The Prospectus 2016-17 supersedes earlier Prospectus/ Brochure and the contents of this and previous Prospectus/ Brochure cannot be produced for any legal purpose. All disputes, however, shall be subject to Patna High Court Jurisdiction only.
2. The contents of the Prospectus may be changed as per administrative decision in future. Course contents may be revised as per decisions of the Academic Council/other bodies of this University.
3. Payment of Fees: - The finally selected candidates shall be required to pay fee as per **Annexure 'A' (enclosed at end of this Prospectus)**. In case, any student fails to deposit fees within the stipulated period, his/her admission shall stand cancelled and other candidates from the waiting list will be considered for admission purely on merit basis. Changes in fee structure will be subject to administrative decision of the University.
4. All admitted students shall have to submit Migration/ Transfer Certificate from their respective Universities/ Boards positively before the first End semester examination of this University.
5. In case, a student leaves in the middle of the programme his/her fee shall be refunded as applicable under the rules.
6. Refund of caution money (if due) shall be made by the University only after the declaration of final result of the programme. In case, a student fails to complete the programme within stipulated time, the caution money shall be refunded as per rules.
7. Regulations regarding admission and teaching-cum-evaluation as prescribed in the relevant Ordinance and also announced from time to time by the University are to be strictly followed by the students.
8. Students are advised to regularly pay attention to the Notice Boards, displayed at different places pertaining to academic matters.
9. As per the Supreme Court orders, ragging of any kind is banned within and outside the premises of



this University. Any student found guilty of ragging and /or abetting ragging is liable to be punished appropriately as per rules of the University/UGC guidelines.

10. Students are expected to maintain excellent conduct inside and outside the University as well as in the hostels. They will be provided a copy of the University rules at the time of admission. Breach of University rules may result in disciplinary action including expulsion from the University, and the University reserves the right to make changes in the rules at any point of time, which will be notified to the students for their compliance.

## Teaching-Learning

### Regulations for Teaching and Evaluation (Undergraduate/Postgraduate Programme)

1. The undergraduate and postgraduate programmes shall have 2 semesters each year. Some programmes may have winter / summer session. The total number of semesters in each of the programmes is as mentioned separately. It may not be always possible to rigidly define teaching hours, required for each credit. Generally, one credit is defined as 10 teaching hours. The medium of instruction is English for all the Programmes, except Indian Languages. The change of programme after taking admission into one is permitted only once within 10 (ten) working days of the beginning of the session, but subject to (a) fulfilment of the minimum eligibility criterion of the desired programme; and, (b) availability of seats. The class attendance in the previous programme shall not be carried forward in the new programme, if admitted.
2. If a student repeats any semester, s/he shall not be counted in the total number of seats (as allotted by UATEC) to the programme in the particular academic year and are supernumerary seats. The aforesaid student needs to follow the syllabus that is in vogue in the regular semester, and be abided by the regulations laid down for that particular period of time, if any. The aforesaid student needs to repeat all of the courses in the semester with the current batch, with the prior permission of the Chairperson, UATEC, by applying through proper channel.
3. A Programme of study may require certain academic backgrounds to pursue the programme effectively. In such cases, some course(s) without credit may be designed as foundation course to meet the purpose as part of the syllabus.
4. A student shall be liable for disciplinary action if s/he is found involved in any unfair means (as listed by the University) adopted during any of the

examinations conducted by the University.

5. Any exceptional case such as that of a student who has otherwise fulfilled required attendance and continuous evaluation and is not covered under these regulations may be referred to the Chair, UATEC for appropriate decision.

### Class Attendance

6. A student is required to attend, in aggregate, at least 75% of the total number of classes held in the programme, in the specific semester, and at least 60% in any one of the courses in the programme in order to be eligible to appear in the End-semester examination.
7. Waiving of attendance-deficit up to a maximum of 10% is permissible in the following situations, on a case-to-case basis, by the Chair of the Academic Council.  
(a) Representing CUSB in any inter-collegiate, inter-University, local, national or international events; (b) Participating in or organizing an activity of CUSB with prior permission of the Competent Authority; and, (c) Students requesting for condoning of 10% deficit from the required attendance on medical grounds shall submit the certificate of the Registered Medical Practitioner under whom s/he was treated for the said illness. In case of hospitalization, a discharge summary needs to be submitted. Extra / compensatory classes in respective course(s) need to be arranged by the Department / Centre [such classes are required to be concluded at least a week before the examination is scheduled to begin].
8. A student, however, shall not be allowed to appear at End- semester examination, if not covered under Sections 6 and 7. However, such a student shall be permitted to repeat the semester in the subsequent academic year on payment of full semester fees, provided s/he has secured at least overall attendance of 40% in the concerned semester, otherwise s/ he shall have to leave the programme without claiming refund of any fees, and her/his admission shall be treated as cancelled.

## Evaluation

1. There shall be continuous internal evaluation of the students' learning and performance by the instructor(s). Considering the nature of the course, the instructor(s) shall decide the mode of internal evaluation, which may include assignments, class tests, take-home tests, term paper(s), presentations, case studies, the Court Room Exercises (CRE), among others, besides Mid-semester, and End-semester examinations.
2. Evaluation pattern adopted for each course / paper

of theory- intensive as well as practical-intensive programmes shall generally have point distribution as: Out of the total 100 points, Continuous evaluation shall be of 35 points, Mid-semester examination of 15 points, and End-semester examination of 50 points.

3. End-semester theory question paper shall include long and short questions (in terms of length of answers) and/or a limited number of objective-type questions, covering the entire syllabus. Further, duration of the Mid-semester and End-semester examinations shall be of one-hour and two- and-a-half hour's duration respectively. The pattern of question paper / evaluation shall be announced to the students of the respective courses at the beginning of each semester.
4. Each course instructor(s) shall design the examination / evaluation system (Mid and End-semester examinations and continuous assessment) for the course s/he offers with the approval of the Department / Centre Committee (DC / CC). The DC / CC shall appoint one faculty member for moderation of question papers of Mid-semester and End-semester examinations respectively. And the same has to be put on record at the Office of the Controller of Examinations before the examination begins.
5. Generally, each course shall be taught by one instructor / faculty, who shall maintain all the records related to attendance, teaching and evaluation in a systematic manner. In case, the faculty is assisted in teaching by other instructor(s) / faculty, the faculty (in-charge of the course) shall be responsible for coordinating teaching and evaluation, including award of final grade. Monthly records of attendance of students in each of the courses have to be submitted by the Head / Coordinator of the programme to the Office of the

Controller of Examinations at least 15 days before the end semester examinations.

6. 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.
7. 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.
8. 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.

## Grading

9. There shall be 10-point Scale Grade System starting with 4 and ending at 10. There shall be additional Grade 'F' with Grade Point 'zero'. A student having obtained Grade 'F' in a course shall have to reappear in the examination of the said course. The following Grading System shall be used.

Grade	Grade Point	BA.BEd/BSc.BEd	BA.LLB	M.A.	M.Sc./M.Tech
A+	10	90 and above	85 and above	85 and above	90 and above
A	9	80 to <90	75 to <85	80 to <85	85 to <90
A-	8	70 to <80	65 to <75	70 to <80	75 to <85
B+	7	60 to < 70	60 to <65	60 to < 70	65 to <75
B	6	50 to <60	55 to < 60	55 to <60	60 to < 65
B-	5	40 to < 50	50 to < 55	50 to < 55	55 to < 60
C	4		45 to < 50	40 to < 50	45 to < 55
F	0	Less than 40	Less than 45	< 40	<45

### Grading System for B.Voc (Arts and Crafts)

Percentage of Marks	Letter Grade	Grade Point
90 and Above	10	O (Outstanding)
80 to <90	9	A+ (Excellent)
70 to <80	8	A (Very Good)
60 to <70	7	B+ (Good)
50 to < 60	6	B (Above Average)
40 to <50	5	C (Average)
	4	P (Pass)
Less than 40	0	F (Fail)
Attendance less than 75 %	0	Ab (Absent)

### Grading System for LLM

Percentage of Marks	Letter Credit	Grade Point
90 and Above	10	O (Outstanding)
80 to <90	9	A+ (Excellent)
70 to <80	8	A ((Very Good)
60 to <70	7	B+ (Good)
51 to 60	6	B ( Above Average)
50	5	P (Pass)
Less than 50	0	F ( Fail)
Attendance Less than 75%	0	Ab (Absent)

10. There shall be a Semester Grade Points Average (SGPA) calculated for each semester on the basis of grades obtained in that semester. The SGPA for the j-th semester is calculated as:

$$SGPA_j = \frac{\sum_{i=1}^n (m_i c_i)}{\sum_{i=1}^n (c_i)}$$

where, n is the number of courses in the j<sup>th</sup> semester, m<sub>i</sub> denotes the numerical value of the grade obtained in the i<sup>th</sup> course of the semester, c<sub>i</sub> denotes the number of credit for the i<sup>th</sup> course of the semester. For example, consider the numerical grade and credit of a student given in the following Table:

Course	I	II	III	IV	V	VI	VII
Credit	2	2	4	2	2	2	2
Numerical Grade	7	8	5	7	6	8	8

The SGPA for the  $j^{\text{th}}$  semester is calculated as:  $\frac{7x2+8x2+5x4+7x2+6x2+8x2+8x2}{2+2+4+2+2+2+2} = \frac{108}{16} = 6.75$

The Cumulative Grade Point Average (CGPA) for k semesters is given as:

$$CGPA = \frac{\sum_{j=1}^k (SGPA_j \times C_j)}{\sum_{j=1}^k C_j}$$

Where  $C_j$  is the total number of credits in the  $j^{\text{th}}$  Semester.

### Calculation of CGPA

Consider the SGPA as obtained by a student in four semesters along with total credit in each semester as follows:

Semester	First	Second	Third	Fourth
SGPA	6.75	6.00	8.12	7.62
Total Credit	16	20	18	16

$$CGPA = \frac{(6.75 \times 16) + (6.00 \times 20) + (8.12 \times 18) + (7.62 \times 16)}{16 + 20 + 18 + 16} = \frac{108 + 120 + 146.16 + 121.92}{70}$$

$$CGPA = \frac{496.06}{70} = 7.08$$

11. The Grade sheet of the students will show the Grades obtained in all the courses offered in each semester, grades/categories without numerical value (if applicable), the SGPA and the promotion status.

12. To be eligible for the award of Master's Degree in Social Sciences and Languages, a student must secure a minimum final Cumulative Grade Point Average (CGPA) of 4.0. For M. Sc. / for BA.LLB, it is 4.5. For M.Tech / BSc. B Ed / BAB Ed degree, the minimum final CGPA must be 5.0.

13. To find percent equivalent to CGPA the following formula may be used: Percent = CGPA X 10.

14. Grades shown in the award sheet of a student without any numerical value are NA (Not Appeared) and SP (Satisfactory Performance) for course(s) extending beyond a semester such as project work.

### Promotion to Next Semester

15. A Student shall be declared as 'Passed' and promoted to the next semester when s/he earns 'C' Grade ['B-' in the case of BAB Ed / BSc B Ed] or above in the last concluded semester examination, maintaining the spirit and pattern of semester system and covering the mandatory components, such as continuous evaluation, mid-term and end-term examinations in all the courses for which s/he was registered in the said semester.

16. A Student shall be deemed as 'Failed' in a semester when s/he gets below 'C' Grade ['B-' in the case of BSc B Ed / BA B Ed] in 50% or more of the courses offered in the

semester, or does not appear in the examination to meet the requirements as per Sec. 10 above. Such students will be advised by the Board to repeat the semester on payment of semester fees. The student shall be allowed only once to repeat the semester. If s/he fails again, s/he requires withdrawing from the programme.

17. If a student fails to appear, or fails as such, in the End-semester examination only in 1 out of 4, or 2 out of 5 / 6 courses, 3 out of 7 / 8 courses, 4 out of 9 / 10 courses s/he will also be provisionally promoted to the next semester subject to the condition that s/he would appear for examination(s) in such course(s) one time only as and when the same is/are being held next time.

18. The re-examination of the backlog course(s) of each semester shall be conducted within 3 weeks of commencement of the following semester. And, the (provisional) results shall be announced within one week (subject to the ratification by the BOE when it meets next).

19. The backlog course(s) re-examination shall comprise of 50 points for each paper. The points scored by the candidate in the Continuous Evaluation for 35 points beside the Mid-semester examination for 15 points shall be carried forward.

20. If a student so desires, s/he may apply to the Controller of Examinations through the concerned HOD (or, I/C) along with the fee of ₹ 100 only (in the form of a nationalized bank demand draft drawn in favour of "Central University of South Bihar", or in cash) for each course in which s/he wants to reappear.

21. A student who fails to qualify for promotion to the next semester even after re-examination (even in one paper) shall stand demoted to the previous semester and has to continue in the same during the next academic session, followed by successive semesters.

22. The Registration of a student for a Programme shall remain valid, provided s/he accomplishes the attendance requirement, for a period as per the following Chart:

Programme	Maximum Period
2-year P.G. Programme	4 Years
3-year U.G. Programme	5 Years
4-year U.G. Programme	6 Years
5-year U.G. Programme	7 Years

### Course Evaluation by the Students

The University shall design a questionnaire covering various aspects of the courses for evaluation by the students, which shall be mandatorily filled up by the students at the end of teaching in each of the semesters, as and when it is announced. This is compulsory; otherwise the examination result of that student shall be withheld.

### Schools, Centres / Departments and Academic Programmes

Till now, **nine Schools** namely, School of Earth, Biological & Environmental Sciences, School of Education, School of Human Sciences, School of Languages and Literature, School of Law and Governance, School of Mathematics, Statistics & Computer Science, School of Media, Arts & Aesthetics, School of Social Sciences & Policy, and School of Vocational Studies are active with doctoral various postgraduate and undergraduate programmes.

### 1. School of Earth, Biological and Environmental Sciences

It is a century of biology and most of the challenges that we are facing in today's time are global warming, pollution, human diseases and changes in our natural resources. A deeper understanding of biology will not only allow us to overcome these problems but also help to sustain the existing natural resources. The Centre for Biological Sciences plays a leading role in achieving this goal. Our strengths lie across the fields of genomics, biochemistry, informatics, emerging infectious diseases, basic and applied biology. These strengths are

underpinned by faculty members who expert in their fields and are re-investing their knowledge through exceptional student training at graduate, postgraduate and Ph. D. level.

### 1.1 Centre for Biological Sciences

The Centre for Biological Sciences (CBS) is currently offering M. Sc. and PhD Programmes in **Life Science, Biotechnology and Bioinformatics**. These Programmes include well-designed theory and practical courses along with innovation-based training methods in frontier areas of Biological Sciences.

Each of these three Programmes is well equipped with state-of-art facilities to train students with deep theoretical as well as practical understanding of different aspects of biological processes, and promote them to take on an integrative approach for their higher studies and research.

The discipline of **Life Science** covers several areas of Biological Sciences including biochemistry, microbiology, physiology, genetics, recombinant DNA technology, molecular biology and ecology related to "Life in Diversity". Besides laboratory work, students are engaged in dissertation work under guidance of faculties. This programme has a good balance of animal and plant sciences, which broaden student knowledge and capabilities and facilitate them to have diverse career options to choose the best for their future studies and research. Further, the curriculum of Life Science is deigned in such a way that it enables the students to take challenges related to medicine, food, agriculture and environment for innovative and translational research.

**Biotechnology** has emerged as a major thrust in the field of science and technology with a potential to boost the economy of our country. The voice of global Biotechnology in 21st century is to transfer the bio-based technology from "Lab to Land and from Bench to Business" to bring the cost of bio-based commodities within the reach of common man. The courses in Biotechnology Programme are related to recent and emerging trends in various areas of biology including integrated approaches in human health, recombinant DNA technology, bioethics, transgenic development, bioremediation and informatics. The students are also taught biostatistics, which enables them to analyze their data, draw meaningful conclusions and publish in reputed journals. Students are allowed to work directly with faculties on their projects to acquire necessary hands-on training and skills to solve emerging problems.

The post-genomic era has seen Biology grow from a 'soft' discipline to a 'hard' one. This has initiated a scientific revolution driven by Genomics and Bioinformatics.

Bioinformatics is a rapidly growing field of study that centers around at the interface of Biology and Information Technology. The **Bioinformatics** Programme consists of a good amalgamation of courses like Biology, Computer Science, Statistics, Mathematics and Physics. The students are trained for both dry and wet-lab techniques enabling them to better suit for different research laboratories and industries which look for personnel well-taught in programming languages, can do molecular modelling and also have abilities to work on bench producing raw data to analyze further using various Bioinformatics tools.

### 1.1.1 M. Sc. Life Science

The two year (four semesters) postgraduate programme in Life Science is designed to give opportunity to learn modern biological techniques and provide conducive environment to understand basic and applied fields of biological sciences such as genetic engineering, immunology, recombinant DNA technology, protein crystallography, neurobiology and microbiology etc. This platform nurtures student's thinking to observe, analyze, interpret and utilize the biological techniques and phenomena in basic as well as applied fields. Different modes of teaching are adopted to train students. Presentations, assignments, experimental proof of theories, field observation, data analysis and computer applications in biology are few methodologies, which are being applied for teaching. To engage a student's mind in the course, a continuous evaluation method is being followed. In addition, credits scores are also assigned for summer internship to utilize vacations and provide students laboratory exposure.

#### Life Science Laboratory

The Life Science laboratory is equipped with various research facilities of modern biology such as animal and plant tissue culture, proteomics, hybridoma and recombinant DNA technology. The laboratory is fortified with instruments like Automated shakers, Inverted and upright Bright-field and Phase contrast Microscopes, Fluorescence Microscope, Incubators, Laminar Flow hoods, UV-Visible spectrophotometer, Autoclave, Refrigerated Centrifuge, -80°C Deep fridge, Cryocan, Millipore Water Purification system, Thermal cyclers, Real time PCR, FPLC system and 2D electrophoresis system. The laboratory focuses on various fields of basic and applied biology like agricultural crop improvement, development of immunoassays, stress physiology of plants, parasite biology, physiology/endocrinology etc.

Course Code	Course Title	Credits
LSC501	<b>Semester - I</b> Cell Biology	3

LSC502	Fundamentals of Genetics	3
LSC503	Fundamentals of Biochemistry	3
LSC504	Tools and techniques for Biology	3
LSC505	Application of statistics in Biology and Computer applications in biology	2
LSC506P	Lab1(501+502+503+504)	2
<b>Total</b>		<b>16</b>
<b>Semester - II</b>		
LSC507	Enzymology and Metabolism	4
LSC508	Biology of Immune System	4
LSC509	Microbiology	4
LSC510	Population & Community Ecology	2
LSC512P	Lab2 (507+508)	2
LSC513P	Lab3 (509+510)	2
Total		18
LSC513	Summer Internship	2
<b>Semester - III</b>		
LSC601	Molecular Biology & Recombinant DNA Technology	4
LSC602	Developmental Biology	4
LSC603	Plant Physiology	4
LSC604	Animal Physiology	4
LSC615P	Lab4 (601+602)	2
LSC616P	Lab5 (603+604)	2
Total		20
<b>Semester – IV</b>		
LSC511	Evolution and Systematics	2
LSC617-623	Elective 1	2
LSC617-623	Elective 2	2
LSC624 P	Dissertation	10
Total		16
<b>Elective Courses</b>		
LSC617	Molecular Biophysics	
LSC618	Biochemistry of Proteins	
LSC619	Neurobiology	
LSC620	Cell Signalling	
LSC621	Plant Biotechnology	
LSC622	Stress Biology	
LSC623	Bioinformatics	

### 1.1.2 M. Sc. Biotechnology

The major goal of Biotechnology Programme is to produce high quality students capable enough to undertake advance research and development challenges relevant to our country. The two-year (four semesters) postgraduate programme has interdisciplinary approaches with participation of faculty/researchers across the University. Hands-on training programmes with professional and management skills are keys to our teaching pedagogy. This programme also focuses on responsibility building and ethics in research and policy. We are equally giving emphasis on integrated approaches in human health, transgenic crop development, environmental sciences and informatics. The course also comprises project dissertation, presentation and comprehensive viva-voce as part of evaluation system. Students also visit major research institutes in the form of educational tour and Biotechnology industries to learn various aspects of product developments.

Currently, departmental research is mainly focused in the areas of cancer biology, autoimmune diseases, lung



physiology, neuroethology and electrophysiology, immunology of infectious diseases, bioprocess and genetic engineering, stem cell therapy, proteomics, biochemistry of fungal pathogens and genesis of secondary metabolites, genetic manipulations of plants for molecular markers development etc.

#### Biotechnology Laboratory

Biotechnology laboratory is well equipped with state of the art technology and equipments that provide a stimulating environment for teaching and research. It houses facilities for animal, plant, and microbial culture. The list of equipments include multiple Biosafety Cabinets, Laminar Air Flow, Autoclave, Water bath with wide temperature ranges, Dry Block Heater (Heating Block), Rotatory Shaker, Stackable Incubator Shaker, Cell Sonicator, Microscopes (Fluorescence, Inverted, Compound and Normal), various types of refrigerated

Centrifuges, Nano Drop UV/VIS spectrophotometer, ELISA Plate Reader, Spectrophotometer, Gradient Thermal Cycler, Real- Time PCR, UV/VIS Transilluminator, Gel Documentation Systems, Electrophoresis units (Horizontal and Vertical), Blot Transfer System, Deep Freezers (-20° C and -86° C), Ice-Flakes Machine, Cryocan, Lyophilizer, Complete Milli-Q Water System etc. The plant and animal tissue culture labs are equipped with modern technologies.

#### List of courses in M. Sc. Biotechnology (72 Credits)

Course Code	Course Title	Credits
<b>Semester - I</b>		
BTN501	Cell Biology & Genetics	3
BTN502	Microbiology	3
BTN503	Biomolecules & Biochemistry	3
BTN504	Instrumentation: Tools & Techniques in Biotechnology	3
BTN505	Lab1 (BTN 501 + BTN 502)	3
BTN506	Lab2 (BTN503 + BTN504)	3
Total		18

<b>Semester - II</b>		
BTN551	Molecular Biology & Genomics	3
BTN552	Basic Enzymology & Enzyme Technology	3
BTN553	Biology of Immune System	3
BTN554	Bioinformatics	2
BTN555	Biostatistics	2
BTN556	Lab3 (BTN 551 + BTN 552)	3
BTN557	Lab4 (BTN 553 + BTN 554)	3
Total		19

BTN558	Summer training	2
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<b>Semester - III</b>		
BTN601	Recombinant DNA Technology	3
BTN602	Bioprocess Engineering	3
BTN603	Animal Biotechnology	3
BTN604	Plant Biotechnology	3
BTN605	Bioethics, Biosafety and Intellectual Property Rights(IPR)	2
BTN606	Lab5 (BTN 601 + BTN 602)	3
BTN607	Lab6 (BTN 603 + BTN 604)	3
Total		20

<b>Semester - IV</b>		
BTN651	Project Dissertation, Presentation and Comprehensive viva-voce	10
BTN652-657	Electives	3
Total		13

Electives Basket	
Course Code	Name of Paper
BTN652	Environmental Biotechnology
BTN653@	Cancer Biology
BTN654@	Neurobiology
BTN655@	Medical Biotechnology
BTN656@	Protein Biochemistry
BTN657	Metabolic Engineering

@ Open course for School of Earth, Biological and Environmental Sciences.

### 1.1.3 M. Sc. Bioinformatics

The two-year (four semesters) postgraduate programme prepares students towards research, not only providing them with basic understanding of the subject, but also inculcates in them the thirst for applied research in frontier areas like Molecular Modelling, Simulation and Computer aided Drug Designing, Systems Biology and Functional Genomics. Throughout the training, students are given hands-on training on latest software packages such as Schrodinger. Students are provided support and encouragement to gain experience in the established labs for their project and publish their research work.

#### Bioinformatics Laboratory

Extensive infrastructure facilities have been developed in the form of newly constructed computer lab, which is equipped with latest computers of high configuration having Intel-i7 Quad Core processors. All computers are connected with high band-width Internet connection powered by 1Gbps NKN backbone. There are several HP and Dell work stations for high performance computing for Molecular Modelling, Drug design, Virtual screening, Molecular Dynamics, and free energy perturbation calculations.

#### List of courses in M. Sc. Bioinformatics Programme (72Credits)

Course Code	Course Title	Credits
<b>Semester – I</b>		
BIS501 †	Cell and Molecular Biology	4
BIS502 †	Mathematics	4
BIS503 †	Introduction to Unix/Linux and C Language	2
BIS504 *	Introduction to Bioinformatics	4
BIS505	Statistics	4
BIS506 †	Lab 1 (Practical Based on BIS 503)	2
BIS507	Lab 2 (Practical Based on BIS 505) (with R)	2
Total		18

† Optional courses offered in first semester.

<b>Semester – II</b>		
BIS551	Biochemistry and Immunology	4
BIS552	Algorithms in Bioinformatics	4
BIS553	Protein Modelling and Simulations	4
BIS554	Lab3 (Programming in Perl)	4
BIS555	Lab 4 (Practical Bases on BIS 552)	2
BIS556	Lab 5 (Practical Bases on BIS 553)	2
Total		20
<b>Semester - III</b>		
BIS601	Chemioinformatics and drug desining	4
BIS602	Genomics and Proteomics	4
BIS603 *	Molecular phylogeny and evolution	2
BIS604	DBMS and web Technology	2
BIS605	Lab 6 (Practical Based on BIS 601)	2
BIS606	Lab 7 (Practical Based on BIS 602)	2
BIS607	Lab 8 (Practical Based on BIS 604)	2
BIS608	Summer training report evaluation †† Dissertation synopsis presentation	2
<b>Total</b>		<b>20</b>
<b>Semester - IV</b>		
BIS651	Elective paper	2
BIS652	Project work and seminars	12
Elective paper		Credits
Biological Data Mining and Visualization		2
System biology and advance CADD		2
Transcriptome analysis techniques		2
Advance Techniques for Sequence and Structure Analysis		2

➤ Each semester has to be supported by seminars/workshops.

†† Students have to complete two months (approx) summer training at the end of 2nd semester.

\*BIS 504 and BIS 603 are open courses and can be offered to the students of other programmes

### 1.2 Centre for Environmental Sciences

The Centre offers M. Sc. in Environmental Science which is multidisciplinary and integrated study of the Earth, Atmospheric, Biological and Chemical processes and their linkages with developmental perspectives for attaining sustainable environment, along with Ph. D. programme.

#### Environmental Science Laboratory

The environmental science laboratory is well equipped for carrying out experimentation and research in Climate and Monsoon Modelling, Climate Change, Ecology, Biomanipulation and biocontrol, Biogeochemistry, Pollution monitoring and control, Environmental Engineering, Environmental biotechnology and microbiology, Ecotoxicology, Soil sciences. It consists of



equipment such as Atomic Absorption Spectrophotometer (AAS), UV-Vis-spectrophotometer, CHNS analyzer, Ion chromatograph, Automated solvent extractor, Gas Chromatograph (GC), Gas Chromatograph Mass Spectroscopy (GCMS), Kjeldahl nitrogen assembly, Microwave digestion system, Rotary Evaporator, Flame photometer, Incubator shaker, BOD incubator, Respirable dust sampler. The laboratory also includes high speed IBM Linux server, ArcGIS10.2, Climate data analysis tools, PRECIS models.

### 1.2.1 M. Sc. Environmental Sciences

The two-year (four semesters) postgraduate Programme is designed to provide necessary knowledge and skills, so that they can learn to analyze and assess environmental systems and problems. The major thrusts are

1. To study natural resources, the impacts of human activities thereon and the implications of environmental degradation on human development.
2. Natural Processes in the Environment, such as the Atmospheric, Biogeochemical, Ecological and Hydrological processes
3. The Human Dimension of Environmental Change: to understand the determinants of the growth of populations and economies, and how this growth results in demand for natural resources, leading to scarcity, pollution and risks for human health
4. Analytical Tools in Environmental Science: basic tools for analyzing environmental issues, such as data collection and analysis and modelling of air, water, soil and biological systems.

Course Code	Course Title	Credits
ESC 501	Basic Biology	-
ESC 502	Basic Mathematics	-
ESC503	Introduction to Ecology and Environmental Sciences	3
ESC504	Social and Developmental perspectives	2
ESC505	Environmental Chemistry	3
ESC506	Environmental Geosciences	3
ESC507	Environmental Biology	3
ESC508	Practical- I	2
<b>Total</b>		<b>16</b>
Course Code	Course Title	Credits
ESC551	<b>Semester –II</b> Statistical Methods and Computer Applications	3

ESC552	Atmospheric Sciences and Climate Change	3
ESC553	Natural Resources and their Management	3
ESC554	Energy and Environment	3
ESC555	Environmental Policies, Laws and Ethics	3
ESC556	Practical- II	3
<b>Total</b>		<b>18</b>
ESC601	Summer Internship Summer Internship (The points will be added to 3rd semester)	2
<b>Semester –III</b>		
ESC602	Analytical Methods	3
ESC603	Environmental Impact Assessment	3
ESC604	Water Pollution: Causes, Consequences and Control	3
ESC605	Air Pollution: Causes, Consequences and Control	3
ESC606	Remote Sensing and GIS	3
ESC607	Research: Methodology and Proposal	2
ESC ***	Elective – I	3
<b>Total</b>		<b>20</b>
<b>Semester – IV</b>		
ESC ***	Select any electives course (s) from the given list	6
ESC699	Dissertation	10
<b>Total</b>		<b>16</b>
<b>Elective Basket#</b>		
ESC608	Environmental Economics	2
ESC609	Industrial Environment Management	2
ESC610	Environmental Education	2
ESC611	Environmental Modeling	2
ESC612	Disaster Management	2
ESC613	Bio-geo chemical cycles	2
ESC614	Solid Waste Management	2
ESC652	Environmental Biotechnology	3
ESC653	Soil Science	3
ESC654	Hydrology and Water Resources	3
ESC655	River and Wetland Ecosystems	3
ESC656	Biodiversity and Conservation Biology	3
ESC657	Eco-toxicology and Environmental Health	3
ESC658	Restoration Ecology	3

# Courses from elective basket may be offered in 3rd as well as 4th semester

## 2. School of Education

The School of Education was established in 2013-14 by launching Four-Year Integrated programmes in the two streams, viz. B.A.B.Ed. and B.Sc.B.Ed. Further, to cater to the demand of quality teacher educators and

researchers in the field of education, the school is starting M.Ed. and Ph. D. (Education) programmes from 2016-17. The courses of the programmes in the School are updated as per the need of the hour and the latest norms. To provide ample practical experiences, the school has an impressive Educational Resource Centre that has a collection of educational policies documents, psychological tests and experimental equipments, digital learning resources, teaching-aids etc., along with the facilities of Science Lab, Computer Lab, enlisted schools for internship etc.

## 2.1 Four-Year Integrated B.A.B.Ed. and B.Sc.B.Ed. Programmes

Four-year integrated programmes aim to equip the students with the contextual competency by providing basic knowledge in core subjects and orient them to quality teaching skills.

### 2.1.1 Integrated B.A.B.Ed.

The four-year (eight semesters) B.A.B.Ed.programme is an integrated programme, which is designed to develop teaching competence among students with subjects like History, Political Science, Economics, Languages (Hindi/English/Urdu) along with language proficiency for better communication skills.

### 2.1.2 Integrated B.Sc.B.Ed.

The four-year (eight semesters) B.Sc.B.Ed.programme is an integrated programme, which is designed to develop teaching competence among students with subjects like Mathematics, Physics, Chemistry, Animal Science, and Plant Science along with language proficiency for better communication skills.

### 2.2 M.Ed.

M.Ed. is a two-year (four semesters) professional programme for advanced study in the field of Teacher Education which aims at preparing teacher educators and other educational professionals including educational policy analysts, planners, experts in educational assessment etc. The programme offers a comprehensive overview of 'Education' embedded in the foundational disciplines of Philosophy, Sociology and Psychology; and, detailed study of chosen specialized areas of interest. It also includes advance components of pedagogy in a subject of parent discipline of prospective teacher educator. Since M.Ed. is also a degree leading to research in education, the course has a strong research component which includes dissertation writing. The completion of programme shall lead to M.Ed. degree with specialization in secondary education.

In addition to the above mentioned programmes, the School is also offering Ph. D. in Education.

## Structure of Four-Year Integrated B.A.B.Ed.and B.Sc.B.Ed.

### Semester I

B.A. (18 Credits)	Courses on Education (6 Credits) (Common for B.A.B.Ed. & B.Sc.B.Ed.)	B.Sc. (18 Credits)
Subject-I (6 Credits)	EDU 101 Language Proficiency (2 Credits)	Subject-I (6 Credits)
Subject –II (6 Credits)	EDU 102 Basics in Education (4 Credits)	Subject-II (6 Credits)
Subject-III (6 Credits)		Subject-III (6 Credits)

### Semester II

B.A. (18 Credits)	Courses on Education (6 Credits) (Common for B.A.B.Ed. & B.Sc.B.Ed.)	B.Sc. (18 Credits)
Subject-I (6 Credits)	EDU 151 Basic IT Skills** (2 Credits)	Subject-I (6 Credits)
Subject –II (6 Credits)	EDU 152 Language and Communication (2 Credits)	Subject –II (6 Credits)
Subject-III (6 Credits)	EDU 153 Gender, School and Society (2 Credits)	Subject-III (6 Credits)

### Semester III

B.A. (18 Credits)	Courses on Education (8 Credits) (Common for B.A.B.Ed. & B.Sc.B.Ed.)	B.Sc. (18 Credits)
Subject-I (6 Credits)	EDU 201 Psychology of Learner and Learning (4 Credits)	Subject-I (6 Credits)
Subject –II (6 Credits)	EDU 202 Secondary Education in India (2 Credits)	Subject –II (6 Credits)
Subject-III (6 Credits)	EDU 203 ISB Assignment-I (2 Credits)	Subject-III (6 Credits)

### Semester IV

<b>B.A. (18 Credits)</b>	<b>Courses on Education (6 Credits) (Common for B.A.B.Ed. &amp; B.Sc.B.Ed.)</b>	<b>B.Sc. (18 Credits)</b>
Subject –I (6 Credits)	EDU 251 Assessment for Learning and	Subject –I (6 Credits)
Subject-II (6 Credits)	Educational Statistics (4 Credits)	Subject-II (6 Credits)
Subject –III (6 Credits)	EDU 252 Understanding Teaching (2 Credits)	Subject –III (6 Credits)

### Semester V

<b>B.A. (18 Credits)</b>	<b>Courses on Education (8 Credits) (Common for B.A.B.Ed. &amp; B.Sc.B.Ed.)</b>	<b>B.Sc. (18 Credits)</b>
Subject –I (6 Credits)	EDU 301 Pedagogy of First Subject – I (2 Credits)	Subject –I (6 Credits)
Subject-II (6 Credits)	EDU 302 Pedagogy of Second Subject – I (2 Credits)	Subject-II (6 Credits)
Subject –III (6 Credits)	EDU 303 Teaching Orientation** (2 Credits)	Subject –III (6 Credits)
	EDU 304 ISB Assignment-II (Reading and Reflection on text) (2 Credits)	

### Semester VI

<b>B.A. (12 Credits)</b>	<b>Courses on Education (12 Credits) (Common for B.A.B.Ed. &amp; B.Sc.B.Ed.)</b>	<b>B.Sc. (12 Credits)</b>
Subject –I (4 Credits)	EDU 351 Pedagogy of First Subject – II (2 Credits)	Subject –I (4 Credits)
Subject-II (4 Credits)	EDU 352 Pedagogy of Second Subject – II (2 Credits)	Subject-II (4 Credits)
Subject –III (4 Credits)	EDU 353 Human Abilities and Measurement (2 Credits)	Subject –III (4 Credits)
	EDU 354 Management in School (2 Credits)	
	EDU 355 School Experience and Internship-I (4 Weeks) (4 Credits)	

### Semester VII

<b>B.A. (6 Credits)</b>	<b>Courses on Education (18 Credits) (Common for B.A.B.Ed. &amp; B.Sc.B.Ed.)</b>	<b>B.Sc. (6 Credits)</b>
Subject –I (2 Credits)	EDU 401 Knowledge and Curriculum (2 Credits)	Subject –I (2 Credits)
Subject-II (2 Credits)	EDU 402 ICT in Education (2 Credits)	Subject-II (2 Credits)
Subject –III (2 Credits)	EDU 403 School Experience and Internship-II (12 Weeks) (12 Credits)	Subject –III (2 Credits)
	EDU 404 ISB Assignment-III (2 Credits)	

### Semester VIII

<b>B.A. (12 Credits)</b>	<b>Courses on Education (16 Credits) (Common for B.A.B.Ed. &amp; B.Sc.B.Ed.)</b>	<b>B.Sc. (12 Credits)</b>
Subject –I (4 Credits)	EDU 451 Reflective Journal and Portfolio (2 Credits)	Subject –I (4 Credits)
Subject-II (4 Credits)	EDU 452 Inclusive Education (2 Credits)	Subject-II (4 Credits)
Subject –III (4 Credits)	EDU 453 Elective* (4 Credits)	Subject –III (4 Credits)
	EDU 454 School Experience and Internship-III (4 Weeks) (4 Credits)	
	EDU 455 EPC# (4 Credits)	

*(ISB = Inter Semester Break, EPC = Enhancing Professional Capacities) \*\* Practical/workshop mode*

**\*Basket of Electives under EDU453**

<b>EDU 453</b>	<b>Any one of the following, as per the rules:</b>	<b>Credits</b>
	Education and Value Inculcation	4
	Guidance and Counselling	4
	Population Education and Environmental Concerns	4
	Distance Education and Open Learning	4
	Peace Education	4
	Adolescence Education	4
	Action Research	4

**#Basket of Workshops/Activities/Courses under EDU455 EPC (Any four from the following during the Programme, in which one must be related to Yoga)**

<b>Sl. No.</b>	<b>Workshop/Activity/Course Title</b>	<b>Credits</b>
1	Self-Development Workshop	1
2	Yoga Education	1
3	Life Skills Education	1
4	Language Development Workshop	1
5	Waste Management Workshop	1
6	Workshop on Lesson Planning	1
7	Preparation of Low cost Improvised Teaching Aids	1
8	Construction of Achievement Test and Diagnostic Test	1
9	Game and Sports	1
10	Arts and Craft	1
11	Music and Dance	1
12	Dramatics/Theatre	1
13	SUPW	1
14	Preparation of Teaching Aids	1
15	Seminar/Panel Discussion etc.	1
16	Working with Community	1
17	Educational Excursion	1
18	Any other activity to be planned and organized by the Centre or any other department/centre of CUSB or any other university/institute and accepted by the Centre to be considered under EPC.	

**Subject combinations for B.A. in B.A.B.Ed.**

<b>Subject No.</b>	<b>Subject Name</b>
I	Any one literature out of English/Hindi/Urdu
II	History
III	Any one of the following i) Economics ii) Political Science

**Subject combinations for B.Sc. in B.Sc.B.Ed.**

<b>Subject No.</b>	<b>Subject Name</b>	
	<b>For Mathematics Group</b>	<b>For Non Mathematics Group</b>
I	Mathematics	Animal Science
II	Physics	Plant Science
III	Chemistry	Chemistry

**Course Structure of M.Ed. Programme (Total 04 Semesters, 80 Credits)**

<b>SEMESTER</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDITS</b>
<b>SEM I</b>	EDU 501	Educational Studies	2
	EDU 502	Philosophical Perspectives of Education	4
	EDU 503	Basics of Educational Research	4
	EDU 504	Psychological Perspectives of Education	4
	EDU 505	Assessment and Evaluation in Education	4
	EDU 506	Application of ICT in Education *	2
		ISB- I	
<b>SEM II</b>	EDU 551	Sociological, Historical, Political and Economic Perspectives of Education	4
	EDU 552	Advanced Research Methodology and Statistics	4
	EDU 553	Pre-Service and In-Service Teacher Education	4
	EDU 554	Curriculum Studies	4
	EDU 555	Communication and Expository Writing *	2
	EDU 556	Self-Development *	2
		ISB-II	
<b>SEM III</b>	EDU 601	Systems, Structure, Issues and Concerns in Elementary Education Or Systems, Structure, Issues and Concerns in Secondary Education	4
	EDU 602	Policy and Practices relating to Curriculum, Pedagogy and Assessment in Elementary Education Or Policy and Practices relating to Curriculum, Pedagogy and Assessment in Secondary Education	4
	EDU 603	Perspectives, Research and Issues in Teacher Education	4
	EDU 604	Internship in Teacher Education Institution *	2
	EDU 605	**Specialization- I (A/B/C/D/ E/F)	4
		ISB-III ( Data Collection)	
	<b>SEM IV</b>	EDU 651	**Specialization- II (A/B/C/D/ E/F)
EDU 652		Pedagogy of Science Education Or Pedagogy of Mathematics Education Or Pedagogy of Language Education Or	4

		Pedagogy of Social Science Education	
	EDU 653	Dissertation and Viva voce*	6 + 2
	EDU 654	Internship in Teacher Education Institution	4
	EDU 655	Specialization based Internship *	2
<b>Note- * These are Practical Papers ; ISB- Inter Semester Break</b>			

**\*\*List of Specialization Courses in M.Ed. (Offering any specialization is subject to availability of resources in the School):**

**A. Distance Education and Open learning**

I. Foundations of Distance Education

II. E-Learning

**B. Education Technology**

I. Basics of Educational Technology

II. ICT in Education

**C. Guidance and Counselling**

I. Educational Guidance and Counselling

II. Assessment and Appraisal in Guidance and Counselling

**D. Inclusive Education**

I. Inclusive Education for Children with Diverse Needs

II. Education of the Disadvantaged Groups

**E. Policy, Planning, Management and Financing of Education**

I. Education Policy and Policy Research

II. Educational Planning, Management and Financing of Education

**F. Comparative Studies in Education**

I. Fundamentals of Comparative Studies

II. Education in Developing and Developed Countries

**3. School of Human Sciences**

The School of Human Sciences aims to study human beings as a social, cultural and biological species in the context of their experiences, activities, constructs and artifacts. The Human nature is not discipline bound and therefore the School emphasizes interdisciplinary approach to understand it. The school has a mission to pursue quality education and research for greater understanding of human nature and challenges faced by humanity. Disciplines like Anthropology, Psychology, Social work and other Social Sciences interactively may engage in research leading to knowledge system that serves the development of mankind. The objective of the school is to create advance scientific knowledge in various Human Sciences through research. The Centre for Psychological Sciences is established under the School of Human Sciences.

**3.1 Centre for Psychological Sciences**

With a vision to spread and create world class knowledge in the field of Psychology, the Centre for Psychological Sciences (CPSYS) recognizes the immense potential of Psychology and its utility in improving quality of life of individuals and society. The Mission of the Centre is to educate and train psychologists who can serve the humanity. It is presently offering Master's & Ph. D. programmes in Psychology.

**Psychology Laboratory**

The Psychology laboratory provides three kinds of facilities- conducting experiments, psychological testing and qualitative research. The laboratory also enables students to carry out computer based experiments and lab experiments on psychosocial phenomenon. The laboratory contains numerous psychological tests such as neuropsychological tests/batteries, personality tests, intelligence tests, adjustment scales and many other important scales. The psychology lab is equipped with software such as SPSS, R and QDA to carryout analysis of the research.

### 3.1.1 M.A. Psychology

Master's programme in Psychology offers specialization in Social Psychology, Organizational Behaviour, Clinical Psychology and Counselling Psychology aiming at preparing specialized psychologists and

#### Courses in MA Psychology (74 Credits)

Course Code	Course Title	Credits
<b>Semester - I</b>		
PSY501	Cognitive Processes	4
PSY502	Affect and Motivation	4
PSY503	Biological Bases of Behaviour	2
PSY531	Research Method and Experimental Design	4
PSY532	Quantitative Data Analysis – I	2
PSY533	Test Construction	2
<b>Total</b>		<b>18</b>
<b>Semester - II</b>		
PSY551	Understanding Pathological Behaviour	4
PSY552	Understanding Social Behaviour	4
PSY553	Understanding Organizational Behaviour	4
PSY571	Quantitative Data Analysis – II	2
PSY581	Psychology Lab	2
PSY591	Thesis/Project	2
<b>Total</b>		<b>18</b>
PSY592	Summer Internship	2
<b>Semester - III</b>		
PSY ***	Elective Course I (611/621/631)	4
PSY601	Life Span Development	4
PSY602	Self and Personality	4
PSY603	Psychological Assessment	4
PSY641	Thesis/Project	2
<b>Total</b>		<b>18</b>

Course Code	Course Title	Credits
<b>Semester – IV</b>		
PSY ***	Elective Course II	4
PSY ***	Elective Course III (any 4 Credits course)	4
PSY ***	Elective Course IV (for clinical and counselling)	2
PSY651	Internship (for clinical and counselling)	2
PSY661	Qualitative Method and Analysis	4
PSY691	Thesis/ Project	4
PSY695	Viva-voce	2
<b>Total</b>		<b>18</b>

\*\*\* Courses will be taken from Elective Basket.

#### Elective Basket Social Psychology

PSY611	Social Cognition and Behaviour	4
PSY651	Social Psychology in Contemporary World	4
PSY652	Intergroup Relation and Collective Behaviour	4
PSY621	Organizational Behaviour	4
PSY661	Group Dynamics in Organizations Organizational Development & Change	4
PSY662	Human Resource Management	4
PSY671	Counselling Psychology Therapeutic Intervention	4
PSY672*	Clinical Assessment	2
PSY673	Counselling Techniques Approaches	4
<b>Clinical Psychology</b>		
PSY631	Psychopathology	4
PSY671	Therapeutic Intervention	4
PSY672*	Clinical Assessment	2

Note: \* Theory classes will remain same for the course PSY 672. However, laboratory work will be as per requirements of the two specializations, i.e. Counselling and Clinical Psychology.

## 4. School of Languages and Literature

Human civilization evolves through innumerable phases of language evolution. Knowledge too in its resurgent march unflinchingly walks hand in hand with languages to streamline learning. Creative endeavours representing human behaviour mould languages to shape literature. As signifier of lingual heritage, literature showcases cultural diversities to promote learning through textual interpretations. The School of Languages and Literature is grounded in the above said ideas to facilitate studies in language and literature and to promote communication and representation skills. Interdisciplinary approach with cultural dimension in the pluralistic society forms the objective of the school. Presently, the School stands as an academic edifice with its Centre for Indian Languages (Hindi and Urdu) and the Centre for Foreign Languages (English). The two Centres are open to incorporate various academic programmes in Indian and foreign languages respectively for study and research in the understanding and interpretation of cultures and the contextual correlations of language and literature worldwide.