

दक्षिण बिहार केंद्रीय विश्वविद्यालय



CENTRAL UNIVERSITY OF SOUTH BIHAR

भूगोल विभाग Department of Geography

SH-7, Gaya-Panchanpur Road, Village- Karhara, Post-Fatehpur, Gaya- 824236 (Bihar)

NO. CUSB/GEOG/HOD/2022/52

Date: 20.03.2023

To,

The Controller of Examination
Central University of South Bihar, Gaya

Sagar
22/3/23

Sub: - 1. **Submission of Minutes of Board of Studies Meeting conducted on 20.03.2023 -reg.**
2. **Approval of Course structure, Syllabus and Course Code for Ph.D. Course Work for Academic Session 2022-2023- reg.**

Ref. No.: CUSB/Acad/6-4/2013/1779 Dated 06.08.2022

Sir,

With reference to the above-mentioned letter, I am hereby submitting the minutes of Board of Studies meeting, Department of Geography that was conducted on 20 March, 2023 after being recommended by the members of the Board of Studies.

It is requested to kindly approve the modified Course structure, syllabus and course code of Ph.D. Course Work in Geography for students admitted in Academic Session 2022-2023 to conduct Ph.D. Course Work examination in consonance of the provisions contained in the "Ordinance (Amendments) to the award of Degree of Doctor of Philosophy -2021". I would like to inform you that we have conducted the classes as per the prepared syllabus and to fulfilled the Ordinance of 90 days classes, I assure you that, we will take extra classes to complete the syllabus as modified during the Board of Studies Meeting.

It is my humble request to kindly, it may be placed before 22nd Meeting of the Academic Council of our university for its (post facto) approval as an agenda.

This is for your kind perusal and necessary action please.

Thanking You,

Yours Truly

(Prof. Kiran Kumari)
Head

Enclosure:

1. Minutes of BOS meeting
2. Attendance sheet of Meeting
3. Ph.D. Course Work in Geography



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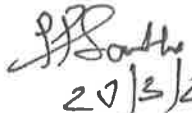

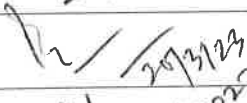
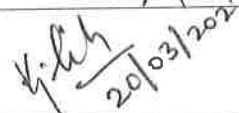
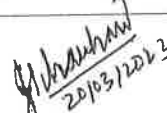
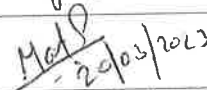
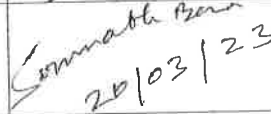
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भूगोल विभाग Department of Geography

SH-7, Gaya-Panchanpur Road, Village- Karhara, Post-Fatehpur, Gaya- 824236 (Bihar)

ATTENDANCE

Following Faculty members attended the Board of Studies meeting scheduled on date 20 March, 2023 at 02.30 PM in the Department of Geography.

| Sl. No. | Faculty Members | | Signature |
|---------|--|--|---|
| 1 | Prof. Kiran Kumari Head, Department of Geography, Central University of South Bihar, Gaya | Chairman |  20/03/2023 |
| 2 | Prof. N. K. Rana Professor, Department of Geography, Banaras Hindu University, Varanasi | External Expert | ONLINE |
| 3 | Prof. Shiva Kant Singh Head & Professor Department of Geography, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur | External Expert | ONLINE |
| 4 | Prof. K. N. P. Raju Ex-Head, Department of Geography, Banaras Hindu University, Varanasi | (Special Invitees) External Expert | ONLINE |
| 5 | Prof. Pradhan Parth Sarthi Dean, School of Earth, Biological and Environmental Sciences, Professor, Department of Environmental Sciences, CUSB | Member from Cognate Dept. |  20/03/23 |
| 6 | Prof. Prafull Kumar Singh Head & Professor, Dept. of Geology, CUSB | Member from Cognate Dept |  20/03/2023 |
| 7 | Dr. Rupesh Gupta, Associate Professor, Department of Geography, CUSB | Member |  20/03/23 |
| 8 | Dr. Kiran Kumari Singh Associate Professor, Department of Geography, CUSB | Member |  20/03/2023 |
| 9 | Dr. Sunita Singh, Assistant Professor, Department of Geography, CUSB | Member | ONLINE |
| 10 | Dr. Jogindar Singh Chauhan Assistant Professor, Department of Geography, CUSB | Member |  20/03/2023 |
| 11 | Dr. Manjit Singh, Assistant Professor, Department of Geography, CUSB | Member |  20/03/2023 |
| 12 | Dr. Somnath Bera, Assistant Professor, Department of Geography, Central University of South Bihar, Gaya | Member |  20/03/23 |



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CENTRAL UNIVERSITY OF SOUTH BIHAR

भूगोल विभाग Department of Geography

SH-7, Gaya-Panchanpur Road, Village- Karhara, Post-Fatehpur, Gaya- 824236 (Bihar)

NO. CUSB/GEOG/BoS/2023/13

Date: 20.03.2023

MINUTES OF THE 2ND MEETING OF BOARD OF STUDIES

Minutes of the 2nd meeting of Board of Studies (BoS), Department of Geography held on 20 March, 2023 at 02.30 p.m. in Chanakya Bhawan, Room no. 227, Department of Geography, Central University of South Bihar, Gaya.

The following members were **Present**:

1. Prof. Kiran Kumari, Head, Department of Geography, CUSB, Gaya : Chairman
2. Prof. Narendra Kumar Rana, Professor, Department of Geography, Banaras Hindu University, Varanasi : External Member (Online Mode)
3. Prof. Shiva Kant Singh, Head & Professor, Department of Geography, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur : External Member (Online Mode)
4. Prof. K. N. P. Raju, Ex-Head, Department of Geography, Banaras Hindu University, Varanasi : Special Invitee (Online Mode)
5. Prof. Pradhan Parth Sarthi, Dean, School of Earth, Biological and Environmental Sciences, CUSB, Gaya : Cognate Member
6. Prof. Prafull Kumar Singh, Head & Professor, Dept. of Geology, CUSB : Cognate Member (Online Mode)
7. Dr. Rupesh Gupta, Associate Professor, Department of Geography, CUSB : Member
8. Dr. Kiran Kumari Singh, Associate Professor, Department of Geography, CUSB : Member
9. Dr. Sunita Singh, Assistant Professor, Department of Geography, CUSB : Member (Online Mode)
10. Dr. Jogindar Singh Chauhan, Assistant Professor, Department of Geography, CUSB : Member
11. Dr. Manjit Singh, Assistant Professor, Department of Geography, CUSB : Member
12. Dr. Somnath Bera, Assistant Professor, Department of Geography, CUSB : Member

At the outset, the Chairman welcomed all the members for attending the 2nd meeting of the Board of Studies. The chairman further expressed special thanks to Prof. N. K. Rana, Prof. S.K. Singh and Prof. K.N. P. Raju for sparing the time from their busy schedule to attend the meeting in online mode. It was followed by presentation of the agenda for the meeting after which the meeting commenced and the Board resolved and recommended as under:

Agenda No.1 BoS-02:

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20/3/23

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20/03/23

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CENTRAL UNIVERSITY OF SOUTH BIHAR

भूगोल विभाग Department of Geography

SH-7, Gaya-Panchanpur Road, Village- Karhara, Post-Fatehpur, Gaya- 824236 (Bihar)

To modify the Ph.D. Course-Work Syllabus structure and course code for the Department of Geography for the session 2022-23.

Resolution No.1/BoS-02: During the meeting, the structure of the syllabus and course code of Ph.D. Course-Work Programme were discussed in accordance with the "Ordinance (Amendments) Relating to the Award of Degree of Doctor of Philosophy-2021" notified vide CUSB Notification No. CUSB/Acad/1-7/2021/1116 Dated 28.09.2022 and with reference to the CUSB Notice No. CUSB/Acad/6-4/2013/1779 dated 06.03.2023. All the members of Board of Studies praised the department for its efforts in preparing the Ph.D. course content with some minor changes by modifying paper/course code namely Research Methodology (GEO901), Tool and Techniques in Geography (GEO902), Preparation and Presentation of Research Proposal (GEO903) and Research and Publication Ethics (GEO904) to conduct examination of the Ph.D. Course Work in consonance of the Ph.D. Ordinance. All the suggestions have been incorporated and subsequently the syllabus of Ph.D. programme was resolved to recommend for approval.

The members of the Board of Studies recommended it unanimously for its approval.

Since, there was no any other agenda, the meeting was ended with a vote of thanks from the Chair.

Somnath Bera
20/03/23
Dr. Somnath Bera
Assistant Professor

Manjit Singh
29/3/23
Dr. Manjit Singh
Assistant Professor

Jogindar Singh Chauhan
Dr. Jogindar Singh Chauhan
Assistant Professor

Dr. Sunita Singh
Assistant Professor

Kiran Kumari Singh
20/03/2023
Dr. Kiran Kumari Singh
Associate Professor

Rupesh Gupta
Dr. Rupesh Gupta
Associate Professor

Pradhan Parth Sarthi
20/03/23
Prof. Pradhan Parth Sarthi
Cognate Member

Prafull Kumar Singh
20/03/2023
Prof. Prafull Kumar Singh
Cognate Member

Prof. K. N. P. Raju
Special Invitee

Prof. S. K. Singh
External Member

Prof. N. K. Rana
External Member

Kiran Kumari
20/03/23
Prof. Kiran Kumari
Chairman, BoS



दक्षिण बिहार केंद्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF SOUTH BIHAR

COURSE STRUCTURE AND SYLLABI

PREPARED IN THE LIGHT OF NATIONAL EDUCATION POLICY 2020

SYLLABUS

COURSE WORK FOR Ph.D. IN GEOGRAPHY

EFFECTIVE FROM ACADEMIC SESSION 2022-23

**DEPARTMENT OF GEOGRAPHY
SCHOOL OF EARTH, BIOLOGICAL AND
ENVIRONMENTAL SCIENCES**

Am *1/1/23*

DR Sub
Somath Bera
1/1/23

COURSE WORK FOR PH.D. IN GEOGRAPHY

BOARD OF STUDIES OF THE DEPARTMENT OF GEOGRAPHY

The Hon'ble Vice Chancellor, Central University of South Bihar has reconstituted the Board of Studies of the Department of Development Geography, School of Earth, Biological and Environmental Sciences as per Statute 16 (2) of the University vide notification No.CUSB/Acad/932/dt.26.08.2022, with the following members.

| Sl. No. | Name | Address | Position |
|---------|----------------------------|---|-----------------|
| 1. | Prof. Kiran Kumari | Head, Department of Geography, Central University of South Bihar (CUSB), Gaya | Chairman |
| 2. | Prof. Narendra Kumar Rana | Department of Geography, Banaras Hindu University, Varanasi | External Member |
| 3. | Prof. Shiva Kant Singh | Head & Professor Department of Geography, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur | External Member |
| 4. | Prof. K. N. P. Raju | Ex-Head, Department of Geography, Banaras Hindu University, Varanasi | Special Invitee |
| 5. | Prof. Pradhan Parth Sarthi | Dean, School of Earth, Biological and Environmental Sciences, CUSB | Cognate Member |
| 6. | Prof. Prafull Kumar Singh | Head & Professor, Dept. of Geology, CUSB | Cognate Member |
| 7. | Dr. Rupesh Kumar Gupta | Associate Professor, Department of Geography, CUSB | Member |
| 8. | Dr. Kiran Kumari Singh | Associate Professor, Department of Geography, CUSB | Member |
| 9. | Dr. Sunita Singh | Assistant Professor, Department of Geography, CUSB | Member |
| 10. | Dr. Jogindar Singh Chauhan | Assistant Professor, Department of Geography, CUSB | Member |
| 11. | Dr. Manjit Singh | Assistant Professor, Department of Geography, CUSB | Member |
| 12. | Dr. Somnath Bera | Assistant Professor, Department of Geography, CUSB | Member |

The Board meeting held during 20 March, 2023 discussed and resolved to approve the programme structure and syllabus of the Ph.D. Course Work in Geography.







DEPARTMENT OF GEOGRAPHY

Course Work Syllabus for Ph.D. Programme

| Course Code | Course Title | Course type | Credit Hours | Evaluation Marks |
|---------------------------------|---|-------------|--------------|------------------|
| Core Course (Compulsory) | | | | |
| GEO901 | Research Methodology | Core | 4 | 100 |
| GEO902 | Tools and Techniques in Geography | Core | 4 | 100 |
| GEO903 | Presentation and Preparation of Research Proposal | Core | 4 | 100 |
| GEO904 | Research and Publication Ethics | Core | 2 | 100 |
| | Total | CBCS | 14 | 400 |

Choice Based Credit System (CBCS): CF: Compulsory Foundation, Co: Core
Cr: Credit

Total Credits of Course Work for Ph.D., Geography: 4+4+4+2 = 14 Credits

Singh *H.S.* *PP Saha*
Sammath Bera
Mishra

PH. D. COURSEWORK (EFFECTIVE FROM SESSION 2022-2023)

In accordance with “Ordinance (Amendments) Relating to the Award of Degree of Doctor of Philosophy-2021” vide notification F.N. CUSB/Acad/1-7/2021/116 Dated 27-28.09.20222020”, in terms of clause 15.2 Credit, Lecture mode, attendance and Evaluation of Ph.D. Coursework is as following:

- 15.2.1. Ph. D. Coursework will be minimum of 08 credits and a maximum of 16 credits.
- 15.2.2. Atleast four credits will be given to one or more courses on research methodology in the Ph.D. course covering areas such as quantitative methods, computer applications, research ethics and review of published research in the relevant field, training, fieldwork, etc.
- 15.2.3. All the courses will be advanced course to prepare students for pursuing advanced level research for the Ph.D. programme.
- 15.2.4. A two credits course on Research and Publication Ethics as prescribed by UGC is compulsory.
- 15.2.5 The details of courses, course credits and other related matters will be determined as per the ordinances of the department.
- 15.2.6. A minimum of 75% attendance in the coursework will be mandatory for the research scholars for full time and part-time.
- 15.2.7. The details of courses, course credits and other related matters not provided in this Ordinance shall be prescribed in accordance with the UGC Guidelines and Ordinances. The evaluation of the paper/ course related to Ph.D. Coursework will be done by the course Instructor (s). A Ph.D. scholar must obtain a minimum of 55% marks in the UGC 7 point scale or its equivalent grade (or equivalent Grade/CGPA by whatever grading system is followed). In the course work and submit the thesis while continuing with the program. In case of any discrepancy related to evaluation or subject matter, the RAC and DRDC will be consulted. The grades will be finalized after a joint evaluation or a thorough overview of the subject-matter related work.
- 15.2.8. Course (Course codes 901 and 902) will be evaluated by the respective course instructor (s) or faculty member(s). And the evaluation report will be sent through DRDC to the office of the Controller of Examinations. The end semester examinations of these courses will be of 100 marks. The calculation method of grades for these courses will be the same as for the respective PG courses and will not be placed before the examination board.
- 15.2.9. The allotted maximum of 100 marks of course code 903 will be divided into two parts, 75% for writing the research proposal plan and the remaining 25% for Research Plan Proposal presentation. This evaluation will be done jointly by the RAC concerned and DRDC, and the marks obtained by the PHD scholar will be submitted to the office of the Controller of Examinations through the DRDC.

Paper-I

| Course Title: Research Methodology | | L | T | P | Cr |
|---|--|-------------------------|----------|----------|-----------|
| Course Code: GEO901 | | 4 | - | - | 4 |
| Total Hour: 60 Hours | | | | | |
| Course Learning Outcomes (CLO): At the completion of the course, the student will be able to: CLO1: understand research and research methodology. CLO2: understand philosophical approaches in doing research CLO3: how to identify research problem and CLO4: how to write scientific research paper. | | | | | |
| Unit/Hours | Content | Mapping with CLO | | | |
| Unit I / 15 Hours | Introduction of Research Research: Meaning and concept; Scientific method of inquiry and basic steps of research; Types of research: Basic, Applied and Action Research; Methods and Methodology. | CLO1 | | | |
| Unit II / 15 Hours | Research Methodology Qualitative research methodology (Case Study, Ethnography, Historical methods, Participatory research methods, Focused Group Discussion); Quantitative research methodology; Mix method. | CLO2 | | | |
| Unit III / 15 Hours | Philosophical Discourses in Geography Positivism; Idealism and Realism; Structuralism; Post Structuralism and Post Modernism; Environmentalism; Philosophy of Space and Time; Inductive and Deductive approach. | CLO2 CLO3 | | | |
| Unit 4/ 15 Hours | Dissertation, Report and Research paper writing Identification and Conceptualization of a Research Problem, Research Questions and Hypotheses; Literature Review; Research Design: Types and Stages of research design; Sampling Design. Research Dissertation and Documentation, Scientific research paper writing; Referencing. | CLO4 | | | |
| Suggested/ recommended readings: | | | | | |
| <ol style="list-style-type: none"> 1. Creswell, J., (1994). <i>Research Design: Qualitative and Quantitative Approaches</i>. UK: Sage Publications. 2. Creswell, J.W. and Creswell, J.D. (2017). <i>Research Design: Qualitative, Quantitative, and Mixed Methods Approaches</i>. London: Sage Publications. 3. Flick, U. (2020). <i>Introducing Research Methodology: Thinking Your Way through Your Research Project</i>. 3rd Ed. London: Sage Publications. 4. Denzin, N. K. and Lincoln, Y.S. (eds.) 2000. <i>Handbook of Qualitative Research</i>. Sage Publ., ThousandOaks CA. 5. Hay, Iain (ed.) 2005. <i>Qualitative Research Methods in Human Geography</i>. Oxford University Press, Melbourne. 2nd Ed. 6. Knight, Peter G. and Parsons, Tony 2003. <i>How to do your Essays Exams & Coursework in Geography and Related Disciplines</i>. Nelson Thornes, Cheltenham U.K. 7. Kothari, C.R. (2012). <i>Research Methodology, Methods and Techniques</i>. New Delhi: New Age International Publishers. 8. Misra, R. P. 2015. <i>Research Methodology: A Handbook</i>, Concept Publishing Company, New Delhi. | | | | | |

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Paper-II

| Course Title: Tools and Techniques in Geography | | L | T | P | Cr |
|---|--|-------------------------|----------|----------|-----------|
| Course Code: GEO902 | | 4 | - | - | 4 |
| Total Hour: 60 Hours | | | | | |
| <p>Course Learning Outcomes (CLO): At the completion of the course, the student will be able to:</p> <p>CLO1: understand research methods and techniques used in Geography.</p> <p>CLO2: understand both qualitative and quantitative research methods and techniques.</p> <p>CLO3: skill for developing acumen to select sampling, designing, appropriate data analysis, presentation and making inferences about the population.</p> | | | | | |
| Unit/Hours | Content | Mapping with CLO | | | |
| Unit I / 15 Hours | <p>Tools and Techniques of Data Collection Introduction of tools and techniques of research; Data and its sources: primary data and secondary data; Questionnaire preparation and data collection; Sampling Techniques, Schedule and Interview, Conducting Interview and Survey, Concept & types of field survey, concept and types of observation. Learning activities: Case study (national and international), Research Paper reading, Presentation</p> | CLO1 | | | |
| Unit II / 15 Hours | <p>Data Measurement Scale Data arrangement, classification and tabulation of data, frequency distributions and data, Cartography techniques, Model making; Quantitative and qualitative interpretations. Learning activities: Case study (national and international), Research Paper reading, Presentation</p> | CLO2 | | | |
| Unit III / 15 Hours | <p>Geo-Spatial Techniques Introduction of softwares of GPS, GIS and Remote Sensing; Application of GPS in data collection; Application of GIS in spatial analysis, Application of Remote Sensing in Environmental Monitoring and Management; Introduction of Digital Elevation Model (DEM) and properties; Sources of satellite images. Learning activities: Case study (national and international), Research Paper reading, Presentation</p> | | | | |
| Unit 4/ 15 Hours | <p>Descriptive and Inferential Statistics Central Tendency, Dispersion, Correlation, Regression; Hypothesis Testing: T-test and Z-test; Application of Microsoft Excel and SPSS. Learning activities: Case study (national and international), Research Paper reading, Presentation</p> | | | | |

Suggested/ recommended readings:

1. Creswell, J., (1994). Research Design: Qualitative and Quantitative Approaches. UK: Sage Publication.
2. Creswell, J.W. and Creswell, J.D. (2017). Research Design: Qualitative, Quantitative, and
3. Denzin, N. K. and Lincoln, Y.S. (eds.) 2000. *Handbook of Qualitative Research*. Sage Publication, Thousand Oaks CA.
4. Hay, Iain (ed.) 2005. *Qualitative Research Methods in Human Geography*. Oxford University Press, Melbourne. 2nd Ed.
5. Jensen, J.R. (2009). Remote Sensing of the Environment: An Earth Resource Perspective. 2nd

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Ed. New Delhi: Pearson Education.

6. Knight, Peter G. and Parsons, Tony 2003. *How to do your Essays Exams & Coursework in Geography and Related Disciplines*. Nelson Thornes, Cheltenham U.K.
7. Kothari, C.R. (2012). *Research Methodology, Methods and Techniques*. New Delhi: New Age International Publishers.
8. Lillesand, T.M.; Kiefer, R.W. and Chipman, J.W. (2004). *Remote Sensing and Image Interpretation*. 5th Ed. New Delhi: John Wiley India.
9. Sabins, F.F. (2007). *Remote Sensing: Principles and Interpretation*. 3rd Ed. Long Grove: Waveland Press.
10. Stoddard, Robert H. 1982. *Field Techniques and Research Methods in Geography*. Kendall/Hunt Pub. Dubuque IO.

Paper III

PREPARATION AND PRESENTATION OF RESEARCH PROPOSAL

| | | | | |
|---|---|--|--|---------------|
| Course Title: Preparation and Presentation of Research Proposal | | | | Credit |
| Course Code: GEO903 | | | | 4 |
| Total Hour: 60 Hours | | | | |
| Course Objectives: The course intends to develop PhD Scholar's writing and oral presentation skills while preparing their respective research proposals. | | | | |
| Learning Outcomes (CLO): At the completion of the course, the scholar will be able to: | | | | |
| CLO1: identify their research topic and formulate the research problems lucidly. | | | | |
| CLO2: learn the art of writing a research proposal/ paper/ article/ dissertation/ thesis. | | | | |
| Unit | Contents | | | |
| Unit I 30 Hours | Part I: Preparation of Research Proposal: Literature Survey, Identification of the topic for Ph.D. Research and preparation of research proposal in the standard format as per the University guidelines. | | | |
| Unit II 30 Hours | Part II: The research proposal on the topic chosen by the candidate for her/his Ph.D. shall be submitted as computer typed script as per the writing discipline followed by seminar presentation. Each student shall be required to articulate in about 5000 words in her/his individual subject of study in the intended area of research by selected bibliography. The written submission on the chosen topic shall be evaluated for 75 per cent weightage and the seminar presentation for 25 per cent weightage. The research proposal is supposed to give evidence of two things: a comprehensive review of existing literature of the past studies in the subject area, and the student's awareness of and adherence to the discipline of writing research proposal/paper/dissertation and documentation. | | | |

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Paper IV

RESEARCH & PUBLICATION ETHICS (CORE)

| | | | | | |
|---|--|----------|----------|----------|-------------------------|
| Course Title: Research & Publication Ethics (Core) | | L | T | P | Cr |
| Course Code: GEO904 | | 2 | - | - | 2 |
| Total Hour: 60 Hours | | | | | |
| Course Learning Outcomes (CLO): At the completion of the course, the student will be able to: CLO1: understand philosophy of research and scientific conduct of doing research. CLO2: understand the publication ethics and misconduct of doing research. CLO3: to do, how to formulate research design and research problem. CLO4: how to validate data for research. | | | | | |
| Unit/Hours | Content | | | | Mapping with CLO |
| Unit I / 10 Hours | Philosophy and Scientific Conduct Introduction to Philosophy: Definition, Nature and Scope, Concept, Branches; Ethics: Definition, Moral Philosophy, Nature of Moral Judgments and Reactions. Scientific Conduct: Ethics with respect to Science and Research, Intellectual Honesty and Research Integrity, Scientific Misconducts: Falsification, Fabrication and Plagiarism; Redundant Publications; Duplicate and Overlapping Publications, Salami Slicing; Selective Reporting and Misrepresentation of Data Learning activities: Assignment work, seminar presentation | | | | CLO1 |
| Unit II / 10 Hours | Publication- Ethics and Misconduct Publication Ethics: Definition and Importance, Best Practices and Guidelines: COPE, WAME; Conflicts of Interest. Publication Misconduct: Definition, Concept, Problems that lead to Unethical Behavior and Vice Versa; Violation of Publication Ethics, Authorship and Contributionship; Identification of Publication Misconduct, Complaints and Appeals; Predatory Publishers and Journals Learning activities: Assignment work, seminar presentation | | | | CLO1 CLO2 |
| Unit III / 10 Hours | Publication- Policy Open Publications and Initiatives; SHERPA/RoMEO Online Resource to Check Publisher Copyright and Self Archiving Policies; Software Tool to Identify Predatory Publications Developed by SPPU; Journal Finder/Journal Suggestion Tools Viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, Etc.; Use Of Plagiarism Software Like Turnitin, Urkund and Other Open Software Tools. Learning activities: Reading Journals/articles / Paper writing | | | | CLO2 CLO3 |
| Unit 4/ 10 Hours | Data Base and Research Metrics Data Base: Indexing Database; Citation Database: Web Science, Scopus Etc.; Research Metrics: Impact Factor of Journal as Per Journal Citation Report, SNIP, SJR, IPP, Cite Score; Metrics: H-Index, G Index, I10 Index, Altimetric. Learning activities: On-Hand practices, Exercises | | | | CLO4 CLO5 |

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Suggested/ recommended readings:

1. CEHAT. (2000). *Ethical Guidelines for Social Science Research in Health, National Committee for Ethics in Social Science Research in Health (NCESSRH)*. Mumbai: Centre for Enquiry into Health and Allied Themes.
2. Comstock, G. (2012). *Research Ethics: A Philosophical Guide to the Responsible Conduct of Research*. Cambridge: Cambridge University Press.
3. Gregory, I. (2003). *Ethics in Research*. London: Continuum.
4. Hames, I. (2007). *Peer Review and Manuscript Management in Scientific Journals: Guidelines for Good Practice*. Malden: Blackwell Publishing.
5. Iphofen, R. (2020). *Handbook of Research Ethics and Scientific Integrity*. Switzerland: Springer Nature.
6. Iphofen, R. (2017). *Finding Common Ground: Consensus in Research Ethics across the Social Sciences*. Bingley: Emerald Publishing.
7. Iphofen, R. and Tolich, M. (2018). *The Sage Handbook of Qualitative Research Ethics*. London: Sage Publications.
8. Kara, H. (2018). *Research Ethics in the Real World*. Bristol: Policy Press.
9. Lakhotia, S.C. and Chandrasekaran, S. (2019). *Ethics in Science Education, Research and Governance*. New Delhi: Indian National Science Academy.
10. Oliver, P. (2010). *The Student's Guide to Research Ethics*. 2nd Ed. Philadelphia: Open University Press.
11. Sana, L. (2002). *Textbook of Research Ethics: Theory and Practice*. New York: Kluwer Academic Publishers.
12. Shamoo, A.E. and Resnik, D.B. (2003). *Responsible Conduct of Research Contributors*. New York: Oxford University Press.

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Sannath Bera
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