

**SCHOOL OF STUDIES IN LIBRARY AND INFORMATION
SCIENCE
PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR (C.G.)**

**Ph.D. – Course Work in Library & Information Science
Programme Code – Ph.D.-130
Session: 2022-2023 Onwards**

Duration: One Semester (Six Months)

Paper	Courses Code	Title and Paper	Theory F.M.	Pass Marks
1	401RM	Research Methodology	100	50
2	402ICT	ICT and Computer Literacy	100	50
3		Research and Publication Ethics (RPE)	100	50
4		Project/Seminar	100	50
Total			400	200

Learning Outcomes and Syllabus Contents of Each Course

Paper – I Research Methodology (Course Code- 401RM)

Learning Outcomes:

After studying this paper, students shall be able to:

1. Know about research: concept of research and process of research.
2. Understand the research design and Identification and formulation of problem of research.
3. Understand the hypotheses, testing of hypotheses.
4. Know about research methods, tool and technique.
5. Understand Data analysis and Interpretation, tabulation and generalization.
6. Understand the design and development of content analysis.
7. Understand the Citation-theory and analysis.
8. Understand Designing research proposal.
9. Understand the citing bibliographical references.
10. Know about current trends in library and information science research.

- **Research:** Characteristics, Types & Steps in research, Identification, Selection and formulation of research problems, Research questions, Review of Literature.
- **Hypothesis:** Definition and Types, Formulation & Testing. Standard Error & Point and Interval estimates.
- **Sampling theory:** Types of Sampling, Steps in Sampling. Methods of Data Collection.
- **Statistical Methods:** basic concepts & its implication in research, Measures of Central Tendency. Dispersion, Skewness and Kurtosis in Research.
- **Writing Proposal & Report:** Introduction of Synopsis & summary writing. Information Presentation, Presentation of Bibliography and citation. Editing the Final Draft, Evaluating the Final Draft.

Paper – II
ICT and Computer Literacy
(Course Code- 402ICT)

Learning Outcomes:

After studying this paper, students shall be able to:

1. Know about create, edit and manage files using Word processing and Power Point Presentation software.
2. Understand Internet-Basic features and tools.
3. Carry out library housekeeping operations using library management software.
4. Understand the using library management software.
5. Know about data base management system.

- **Computer:**Introduction, Computer Architecture and Storage Devices
- **Operating Systems:**Basic introduction to windows& Linux.
- **Internet:**Basics of Internet; Search engine and Meta search engines, Internet search techniques, Internet Security.
- **Electronic Resources:**Web resources, online databases, electronic journals, e-books& on- line indexing and abstracting services, Services Offered by Library Networks.
- **Word Processor Software:**MS Word, MS EXCEL, MS Power Point
- **Statistical Tools:** Statistical software available for analysis and graphical representation: SPSS, etc.

Paper - 3

Research and Publication Ethics (RPE)

Learning Outcomes:

After studying this paper, students shall be able to:

1. Know about research philosophy and ethics.
2. Understand the research intellectual honesty and research integrity
3. Understand the Falsification, Fabrication, and Plagiarism.
4. Know about research publication ethics.
5. Understand open access publications and initiatives.
6. Understand the use of plagiarism software.
7. Understand the Citation-theory and analysis and Citation databases
8. Understand Research Metrics.
9. Understand the citing bibliographical references.

THEORY

RPE 01: PHILOSOPHY AND ETHICS (3hrs.)

1. Introduction to philosophy : definition, nature and scope, concept, branches
2. Ethics: definition, moral philosophy, nature of moral judgements and reactions

RPE 02: SCIENTIFIC CONDUCT (5hrs.)

1. Ethics with respect to science and research
2. Intellectual honesty and research integrity
3. Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)
4. Redundant publications: duplicate and overlapping publications, salami slicing
5. Selective reporting and misrepresentation of data

RPE 03: PUBLICATION ETHICS (7hrs.)

1. Publication ethics: definition, introduction and importance
2. Best practices / standards setting initiatives and guidelines: COPE, WAME, etc
3. Conflicts of interest
4. Publication misconduct: definition, Concept, problems that lead to unethical behaviour and vice versa, types
5. Violation of publication ethics, authorship and contributorship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals

PRACTICE

RPE 04: OPEN ACCESS PUBLISHING (4hrs.)

1. Open access publications and initiatives
2. SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies
3. Software tool to identify predatory publications developed by SPPU
4. Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.

RPE 05: PUBLICATION MISCONDUCT (4hrs.)

A. Group Discussions (2hrs.)

1. Subject specific ethical issues. FFP, authorship
2. Conflicts of interest
3. Complaints and appeals: examples and fraud from India and abroad

B. Software tools (2hrs.)

Use of plagiarism software like software tools Turnitin, Urkund and other open source software tools

RPE 06: DATA BASES AND RESEARCH METRICS (7hrs.)

A. Databases (4hrs.)

1. Indexing databases
2. Citation databases: Web of Science. Scopus, etc.

B. Research Metrics (3hrs.)

1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score
2. Metrics: h-index, g index, i10 index, altmetrics.