

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

(গ্রন্থাগার ও তথ্য বিজ্ঞান বিভাগ)

Rabindra Bharati University

PhD (Course-Work) Syllabus

Duration: One Semester (Six Months)

2017-18

REVISES IN 2021

((Approved by Board of Studies held on 8/9/2021 and Executive Council held on 8/11/2021))

Structure of the syllabus

Paper	Name of the Paper		Marks	Total	Class Hours/Week	Credit
PhD/CW/I	Research Methodology	Fundamentals of Research, Tools, Techniques & Evaluation	30	50	2 hr. / Week	2
		Research & Publication Ethics (RPE)	20		2hr. /Week	2
PhD/CW/II	Book Review and Literature review		25	25	2 hr/Week	2
PhD/CW/III	Computer Application		25	25	2 hr/Week	2
Total=			100		8 hr/week	8

Syllabus in details

PhD/CW/I : Research Methodology FM: 50 (Examination 40 + Internal Assessment 10)

Unit 1: Fundamentals of research, Tools, Techniques & Evaluation

Definition, aims and objectives of research; Materials, tools and Techniques of research; Types of Research; Research Approaches; Research Methods versus Methodology; Research and Scientific Method; Research Process; Criteria of Good Research; Research Design Research Problem; Sample and Sampling, data collection; Measurement and Scaling Technique; Data Analysis; Testing of Hypothesis-Chi-Square Test, Analysis of Variance and Co-Variance Interpretation and Report Writing

Unit 3: Open Access Publishing-Open Access publications and initiatives; SHERPA/RoMEO online resource to check publisher copyright & 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.

Publication Mis-conduct-Group Discussions (2hrs)- Subject specific ethical issues, FFP, authorship; Conflicts of interest; Complaints and appeal: examples and fraud from India and abroad. Software tools- Use of software tools like Turnitin, Urkund and other open source software tools.

Unit 2: Research & Publication Ethics (RPE)

Philosophy and ethics - Introduction to philosophy: definition, nature, and scope, concept, branches; Ethics : definition; Moral philosophy, nature of moral judgements and reactions; **Scientific Conduct**-Ethics with respect to science and research; Intellectual honesty and research integrity; Scientific misconducts: Falsification, Fabrication and Plagiarism(FFP); Redundant publications: duplicate and overlapping publications, salami Slicing; Selective reporting and misrepresentation of data.

Publication ethics-Publication ethics: definition, introduction and importance; Best Practices /standard setting initiatives and guidelines: COPE, WAME, etc.; Conflicts of interest; Publication misconduct: definition, concepts, problems that lead to unethical behavior and vice-versa, types ; Violation of publication misconduct, complaints and appeals Predatory publishers and journals.

Unit 4: **Database and Research Metrics**-Databases: (4hrs)indexing data bases; Citation databases: Web of Science, Scopus, etc. Research metrics: (3hrs) impact factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score; Metrics: h-index, g-index, i10 index, altmetrics.

Term Paper

- 1) Structure of Research Reports, Research Paper Writing, Documentation. Style Manual
- 2) Application of Statistical packages (MS Excel, SPSS, etc)- usage & Evaluation

Unit 1: Design, Standards, Parameters of literature review

Unit 2: Evaluations of 'Review Literatures' (Book and other literatures)

Term Paper

Identify the sources (offline and Online) and conduct literature review relevant to the research scholar's area of research with consultation of his/her supervisor decided by the Departmental Research Committee. Project on Literature Review is to be submitted before the formal dissolution of semester classes or the date specified by the Department.

PhD/CW/III

Computer Application

FM 25

Handle of data using MS Excell; Searching bibliographic database; bibliometrics tools – Bibexcel/Vosviewer/ Biblioshiny; Reference tools-Zotero, Mendeley

References:

1. Kothari, C.R. Research Methodology: methods and techniques. 2nd rev. ed. New Delhi: New Age International. 2004
 2. PANNEERSELVAM, R.. RESEARCH METHODOLOGY. India: PHI Learning, 2014.
 3. Research Methodology. India: Excel Books, 2009.
 4. Kumar, Ranjit. Research Methodology: A Step-by-Step Guide for Beginners. United Kingdom: SAGE Publications, 2010.
 5. Research Methodology for Social Sciences. United Kingdom: Routledge, 2019.
 6. Hartshorn, Scott. Hypothesis Testing: A Visual Introduction to Statistical Significance. United States: Independently Published, 2017.
 7. Shi, Ning-Zhong., Tao, Jian. Statistical Hypothesis Testing: Theory and Methods. Singapore: World Scientific Publishing, 2008.
 8. Antonius, Rachad. Interpreting Quantitative Data with IBM SPSS Statistics. United Kingdom: SAGE Publications, 2012.
 9. Woodwell, Douglas. Research Foundations: How Do We Know What We Know?. United States: SAGE Publications, 2013.
 10. Loue, Sana. Textbook of Research Ethics: Theory and Practice. Ukraine: Springer US, 2007.
 11. Chaddah, P. Ethics in competitive Research: Do not get scooped: Do not get plagiarized. ISBN: 978-9387480865
 12. Kamboj, Sushil., Gupta, Sudhir. Research and Publication Ethics. N.p.: Alexis Press LLC, 2020.
 13. Suber, Peter. Open Access. United Kingdom: MIT Press, 2012.
 14. Gingras, Yves. Bibliometrics and Research Evaluation: Uses and Abuses. United States: MIT Press, 2016.
 15. Singal, Anurag. MS Excel. N.p.: INDEPENDENTLY PUBLISHED, 2019.
 16. Todeschini, Roberto., Baccini, Alberto. Handbook of Bibliometric Indicators: Quantitative Tools for Studying and Evaluating Research. Germany: Wiley, 2016.
 17. Smith Iltis, Ana. Research Ethics. N.p.: Taylor & Francis, 2006.
 18. Macfarlane, Bruce. Researching with Integrity: The Ethics of Academic Enquiry. United States: Taylor & Francis, 2010.
 19. Glassman, Nancy R.. Citation Management Tools: A Practical Guide for Librarians. United States: Rowman & Littlefield Publishers, 2018.
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