

Common for All **Ph.D.** scholars
RPE-04 (Research and Publication Ethics)

Credits: 2
Time: 3 Hrs.

Marks: 50
Theory: 30
IA: 20

Note for the paper setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions selecting at least one question from each unit.

Course Objectives:

1. Provide students with the fundamental knowledge of research methods and design used in.
2. Facilitate students understanding for how using valid scientific methods of measurement and scaling can improve and create knowledge
3. Analyse and interpret methods of quantitative and qualitative data
4. Guide and mentor students in developing, completing, writing, and presenting a valid and ethical research report
5. To know about the University Grants Commission (UGC) has launched a Consortium of Academic and Research Ethics (CARE) to "identify, continuously monitor and maintain" UGC-CARE Reference List of Quality Journals across disciplines

Course Outcomes:

1. Students will be familiar with the fundamental knowledge of basics of philosophy of science and ethics, research integrity, publication ethics.
2. Students will know about predatory journals/pseudo journals and fabrication of data
3. Understand the Subject specific ethical issues, FFP, authorship, Conflicts of interest, Complaints and appeals: examples and fraud from India and abroad
4. Understand the major and authentic databases of reputed journals like Web of Science, Scopus, PubMed, ICI
5. Understand the importance of SCI impact factor, SNIP, SJR, IPP, h-index, g index, i10 index

UNIT-I

Introduction to philosophy: definition, nature and scope, concept, branches, Ethics: definition, moral philosophy, nature of moral judgements and reactions, Ethics with respect to science and research, Intellectual honesty and research integrity, Scientific misconduct: Falsification, Fabrication, and Plagiarism (FFP), Redundant publication: duplicate and overlapping publications, salami slicing, Selective reporting and misrepresentation of data

UNIT-II

Publication ethics: definition, introduction and importance, Best practices standards setting initiatives and guidelines: COPE, WAME, etc., Conflicts of interest, Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types, Violation of publication ethics, authorship and contributorship, Identification of publication misconduct, complaints and appeals, Predatory publishers and journals, Open access publications and initiatives, SHERPA/ROMEIO online resource to check publisher copyright & self-archiving policies.

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UNIT-III

Software tool to identify predatory publications developed by SPPU, Journal finder/ Journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Suggester, etc., Subject specific ethical issues, FFP, authorship, Conflicts of interest, Complaints and appeals: examples and fraud from India and abroad, Use of plagiarism software like Turnitin, Urkund and other open source software tools

UNIT-IV

Indexing databases; Citation databases: Web of Science, Scopus, Pubmed, ICI etc., Impact Factor of journal as per Journal Citation Reports. SNIP, SJR, IPP: Cite Score, Metrics: h-index, g index, i10 index, altmetrics.

References:

1. Bird, A. (2006). Philosophy of Science. Routledge.
2. MacIntyre, Alasdair (1967) A Short History of Ethics. London.
3. P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN:978-9387480865
4. National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). On Being Scientist: A Guide to Responsible Conduct in Research: Third Edition. National Academies Press.
5. Resnik, D. B. (2011). What is ethics in research & why is it Important. National Institute of Environmental Health Sciences, 1-10. Retrieved from
6. <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm> Beall, J. (2012). Predatory publishers are corrupting open access. Nature, 489(7415), 179-179. <https://doi.org/10.1038/489179a>
7. Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019). ISBN:978-81-939482-1-7. <http://www.insaindia.res.in/pdf/EthicsBook.pdf>

Nikhil

Pragya

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Arish

4-5-21

Mani