

COURSE II - RESEARCH AND PUBLICATION ETHICS (RPE)

UNIT I - PHILOSOPHY AND ETHICS

Introduction to Philosophy - Definition, nature and scope, concept, branches - Ethics - definition - moral philosophy - nature of moral judgements and reactions

UNIT II - 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

UNIT III - PUBLICATION ETHICS

Publication Ethics - Definition - Introduction and importance - Best practices / standard 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 - journals

UNIT IV - OPEN ACCESS PUBLISHING

Open access publication - 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.

UNIT V - PUBLICATION MISCONDUCT

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 VI - Databases and Research Metrics

Indexing database - Citation database: Web of Science, Scopus, etc - Impact factor of Journal as per Journal Citation Report, 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 a 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 <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>
6. Beall, J.(2012). *Predatory Publishers are corrupting open access*. *Nature*, 489(7415),179-1793. <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/Ethics_Books.pdf