

Subject Code: 1RI3000104	Subject Title: Research And Publication Ethics
Pre-requisite Subject	- NONE -

Objectives of course: This course has 6 modules mainly focusing on basics of philosophy of science and ethics, research integrity, publication ethics. Hands on sessions are designed to identify research misconduct and predatory publications. Indexing and citation databases, open access publications, research and p metrics and plagiarism tools introduced in the course.

Learning outcomes: Awareness about the publication ethics and publication misconducts.

Teaching Scheme (Credit Distribution)				Evaluation Scheme (% marks)		Total Marks
Lecture	Tutorial	Practical	Credit	Hall Exam	Continuous (External) Assessment	50
30 Hours			2	60%	40%	

Sr. No.	Topic
1	Philosophy & Ethics: Ethics and research publication Introduction to Philosophy: Definition, Nature and scope, concept, branches Ethics: - Definition, moral philosophy, Nature of moral judgements and reactions
2	Scientific Conduct: Ethics with respect to science and research Intellectual honesty and research integrity Scientific misconducts: Falsification, Fabrication and Plagiarism (FFP) Redundant Publication: Duplicate and overlapping publications, salami slicing Selective reporting and misrepresentation of data
3	Publication Ethics: Publication ethics: Definition, introduction and importance Best practices/Standard setting initiative 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 contributor ship Identification of publication misconduct, complaints and appeals Predatory publishers and journals
4	Open Access Publishing 1. Open access publications and initiatives 2. SHERPA/RoMEO online resource to check publisher copyright and 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.
5	Publication Misconduct A. Group Discussions 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 Use of plagiarism software like Turnitin, Urkund and other open source software tools.
6	Databases And Research Metrics A Databases 1. Indexing databases 2. Citation databases: Web of Science, Scopus, etc. B. Research Metrics 1. Impact Factor of journal as per journal citation report, SNIP, SJR, IPP, and Cite Score. 2. Metrics: h-index, g index, i10 index, altmetrics

List of References:

- Bird, A. (2006). Philosophy of science. Routledge.
- MacIntyre, Alasdair (1967) A Short History of Ethics. London.
- P.Chaddah, (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN: 978-9387480865
- 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 EditfOn. National Academies Press.
- 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>
- Beall, J. (2012). Predatory publishers are corrupting open access. Nature, 489(7415), 179—179. <https://doi.org/10.1038/489179a>
- 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_Book.pdf

