

JSS Science and Technology University, Mysuru

Course Code	Course Title	Study Domain	Teaching Hours
RPE003	Research and Publication Ethics (RPE)	Compulsory Course	30 Hours

COURSE ASSESSMENT METHOD:

- Semester End Exam [100 Marks, 3 Hours]

OVERVIEW:

This course has total 6 units focusing on basics of philosophy of science and ethics, research integrity, and publication ethics. Hands-on sessions are designed to identify research misconduct and predatory publications. Indexing and citation databases, open access publications, research metrics (Citations, h-index, Impact Factor, Etc.), and plagiarism tools will be introduced in this course.

Course objective is to create awareness about the publication ethics and publication misconducts.

UNIT: 1 (Theory) 03 Hours

PHILOSOPHY AND ETHICS

1. Introduction to Philosophy: definition, nature and Scope, Concept, Branches
2. Ethics: definition, moral philosophy, nature of moral judgements and reaction

UNIT: 2 (Theory) 05 Hours

SCIENTIFIC CONDUCT

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.

UNIT:3 (Theory) 07 Hours

PUBLICATION ETHICS

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 behavior 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

UNIT:4 (Practical)

04 Hours

OPEN ACCESS PUBLISHING

1. Open access publications and initiatives
2. SHEERPA/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.,

UNIT:5 (Practical)

PUBLICATION MISCONDUCT

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| A. Group Discussions | 02 Hours |
| <ol style="list-style-type: none"> 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 | 02 Hours |
| Use of plagiarism software like Turnitin, Urkund and other open source software tools | |

UNIT:6 (Practical)

DATABASES AND RESEARCH METRICS

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| A. Databases | 04 Hours |
| <ol style="list-style-type: none"> 1. Indexing databases 2. Citation databases: Web of Science, Scopus, etc. | |
| B. Research Metrics | 03 Hours |
| <ol style="list-style-type: none"> 1. Impact Factor of Journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score 2. Metrics: h-index, g index, i10 index, altimetric | |

TEXT BOOKS / 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 Science, 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), 179-179. <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/Ethics_Book.pdf.