

## Course Title -2

**Research and Publication Ethics (RPE)-** Course for awareness about the publication ethics and publication misconducts.

### About the course

**Course Code: CPE-RPE**

### **Overview**

- This course has total 6 units 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 metrics (citations, h-index, Impact Factor, etc.) and plagiarism tools will be introduced in this course.

### **Pedagogy**

- Classroom teaching, guest lectures, group discussions and practical sessions

### **Evaluation**

- Continuous assessment will be done through tutorials, assignments, quizzes and group discussions. Weightage will be given for active participation. Final written examination will be conducted at the end of the course.

### Syllabus in detail

#### **THEORY**

#### **01 • PHILOSOPHY AND ETHICS (3 hrs.)**

1. Introduction to philosophy: definition, nature and scope, concept, branches
2. Ethics: definition, moral philosophy, nature of moral judgements and reactions

#### **02 • SCIENTIFIC CONDUCT (5hrs.)**

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

#### **03 • PUBLICATION ETHICS (7 hrs.)**

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

## PRACTICE

### 04 • OPEN ACCESS PUBLISHING (4 hrs.)

1. Open access publications and initiatives
2. SHERPA/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.

### 05 • PUBLICATION MISCONDUCT (4 hrs.)

#### A. Group Discussions (2hrs.)

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 (2 hrs.)

Use of plagiarism software like Turnitin, Urkund and other open source software tools

### 06 • DATABASES AND RESEARCH METRICS (7 hrs.)

#### A. Databases (4 hrs.)

1. Indexing databases
2. Citation databases: Web of Science, Scopus, etc.

#### B. Research Metrics (3 hrs.)

1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score
2. Metrics: h-index, g index, i10 index, altmetrics

## 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 Edition*, National Academics 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/what\\_is/index.cfm](https://www.niehs.nih.gov/research/resources/bioethics/what_is/index.cfm)
- Beali, J. (2012), Predatory publishers are corrupting open access, *Nature*, 489(7415), 179-179. <https://doi.org/10.1038/4891798>
- 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](http://www.insaindia.res.in/pdf/Ethics_Book.pdf)