



## Syllabus

<b>Course Code</b>	<b>Course Title</b>	<b>Mode</b>	<b>Credit</b>
CUPD0401	Research and Publication Ethics	Theory + Practice	1+1

### Objectives:

1. To understand the philosophy of science and ethics, research integrity and publication ethics.
2. To identify research misconduct and predatory publications.
3. To understand indexing and citation databases, open access publications, research metrics (citations, h-index, impact Factor, etc.). To understand the usage of plagiarism tools.

### Student Outcomes

At the end of the course, the student will have awareness about the publication ethics and publication misconducts.

### Unit I: PHILOSOPHY AND ETHICS (3 Hrs.)

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

### Unit II: SCIENTIFIC CONDUCT (5 Hrs.)

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 (7 Hrs)

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 behaviour and vice versa, types - Violation of publication ethics, authorship and contributor ship - Identification of publication misconduct, Complaints and appeals - Predatory publisher and journals.

### Unit IV: OPEN ACCESS PUBLISHING (4 Hrs.)

Open access publication and initiatives, SHERPA / RoMEO online resource to check publisher copyright, Journal finder / Journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal suggester etc.

## **Unit V: PUBLICATION MISCONDUCT (4 Hrs)**

**Group Discussion:** Subject specific ethical issues, FFP, authorship, Conflict of interest, Complaints and appeal.

**Software tools:** Use of plagiarism software like Turnitin, Urkund and other open source software tools.

## **Unit VI: DATABASE AND RESEARCH METRICS (7 Hrs)**

Databases: Indexing databases, Citation database: WoS, Scopus, SCI, etc.

Research Metrics: IF of the journal as per Journal Citation Report, SNIP, SJR, IPP, Cite score, Metrics: h – index, g index, i10 index.

\*Units 1, 2 and 3 are to be covered via Theory mode and Units 4,5 and 6 are to be covered via practice mode.

### **References**

1. Nicholas H. Steneck. Introduction to the Responsible Conduct of Research. Office of Research Integrity. 2007. Available at: <https://ori.hhs.gov/sites/default/files/rcrintro.pdf>
2. The Student's Guide to Research Ethics By Paul Oliver Open University Press, 2003
3. Responsible Conduct of Research By Adil E. Shamoo; David B. Resnik Oxford University Press, 2003
4. Ethics in Science Education, Research and Governance Edited by Kambadur Muralidhar, Amit Ghosh Ashok Kumar Singhvi. Indian National Science Academy, 2019. ISBN : 978-81-939482-1-7.
5. Anderson B.H., Dursaton, and Poole M.: Thesis and assignment writing, Wiley Eastern 1997.
6. Bijorn Gustavii: How to write and illustrate scientific papers? Cambridge University Press.
7. Bordens K.S. and Abbott, B.b.: Research Design and Methods, Mc Graw Hill, 2008.
8. Graziano, A., M., and Raulin, M.,L.: Research Methods – A Process of Inquiry, Sixth Edition, Pearson, 2007.