Paper-IV

Course Title: Research and Publication Ethics

Course Code: RE-6004

Credit – 02 (30 Classes)

Times per Week: 2 Hours in a week

Total: 30 hours

Duration: One Semester

Course Objectives:

The objectives of this course is to:

- This course has 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 (citation, hi-index, impact factor etc.) and plagiarism tools will be taught in this course.

Course Outcomes:

On the completion of this course students should be able to:

CO1- Learn about basics of philosophy of science and ethics, research integrity.

CO2- Have awareness about the publication ethics and publication misconducts.

CO3- Learn about the publication related databases and various research related tools.

CO4- Develop knowledge about indexation and citation of publications.

CO5- Learn in and out of research publications.

Course Inputs:

UNIT- I   **Philosophy and Ethics**   (3 Lectures)

- Introduction of philosophy: Definition, nature and scope, concept, branches

- Ethics: Definition, moral philosophy, nature of moral judgments and reactions.

UNIT-II Scientific Conduct: (5 Lectures)

- 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 Lectures)

- Publication Ethics: Definition, introduction and importance
- Best practices/standards setting initiatives and guidelines: COPE, WAME etc.
- Conflicts of interest
- Publication misconduct: definition, concepts, 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 publishers and journals

Practice

UNIT-IV Open Access Publishing: (4 Practical)

- Open access Publications and Initiatives
- SHERPA/RoMEO online resource to check publisher copyright and 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: (4 Practical)

A. Group Discussions

- Subject specific ethical issues, FFP, authorship
- Conflicts of interest
- 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

UNIT- VI   Data Bases and Research Metrics   (7 Practical)

A. Databases

- Indexing Databases
- Citation Databases: Web of Science, Scopus etc.

B. Research Metrics

- Impact factor of journal as per Journal Citation Report, SNIP, SJR, IPP,Cite Score

  Metrics: h-index, g index, I 10 index, alt metrics

Suggested Readings:

1. The students' guide to Research Ethics by Paul Oliver Open University Press, 2003

2. Responsible conduct of Research by Adil E. Shamoo; David B. Resnik Oxford University Press, 2003

3. Anderson B.H., Dursaton, and Poole M.: Thesis and Assignment writing, Wiley Eastern 1997.

Reference Books:

1. S. B. Kishor, A.S. Kushwaha, Research and Publication Ethics, Das Ganu Prakashan, Nagpur,

2. Y. Sharma., A. Sharma, Textbook of Research and Publication Ethics, Kalyani Publishers.

Mapping Course with Employability, Entrepreneurship and Skill Development

Course Title	Course Code	Please Mark (✓) wherever applicable		
		Employability	**Entrepreneurship**	**Skill Development**
Research and Publication Ethics	RE-6004	✓		✓