COURSE II–RESEARCH AND PUBLICATION ETHICS (RPE)

Course Outcomes:
Students will be able to:

CO1. Understand the philosophy of science, ethics and research integrity
CO2. Aware about the publication ethics, intellectual honesty and plagiarism
CO3. Inculcate best practices and publication ethics .
CO4. Learn about types of research publications and conflict of interest in publication.
CO5. Expertise in data bases, concept of impact factor and research metrics.

Theory

Unit I. *Philosophy and Ethics*   (4 Hours)
Introduction to philosophy: definition, nature and scope ,concept, branches, Ethics:
definition, moral philosophy, nature of moral judgment and reactions

Unit II. *Scientific Conduct*   (4 Hours)
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 Hours)
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 contributorship
Identification of publication misconduct, complaints and appeals
Predatory publishers and journals

Practice

Unit IV. *Open access publishing*   (4 Hours)
Open access publications and initiatives
SHERPA/RoMEO online resource to check publisher copyright &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*
A. Group discussions (2hrs.)   (4 Hours)
Subject specific ethical issues, FFP, authorship
Conflicts of interest
Complaints and appeals: examples and fraud from India and abroad

B. Software tools (2 Hours)

Unit IV. *Databases and research metrics*   (7 Hours)

A. Databases (4hrs.)
   Indexing databases
   Citation databases: Web of Science, Scopus, etc.

B. Research metrics (3hrs.)
   Impact factor of journals per journal citation report, SNIP, SJR, IPP, Citescore

   Metrics: h-index, g index, i 10index, altmetrics

References:

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2. MacIntyre,A.(1967)*AShortHistory ofEthics*.London.
3. P.Chaddah,(2018)EthicsinCompetitiveResearch:DOnotgetscooped;donotgetplagiarized,ISBN:9 78-9387480865
4. NationalAcademyofSciences,NationalAcademyofEngineeringandInstituteofMedicine.(2009) . *On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition*.NationalAcademies Press.
5. Rensik, D. B. (2011). What is ethics in research & why is it important. *National Institute ofEnvironmental Health Sciences*, 1-10. Retrieved fromhttps://www.niehs.nih.gov/resources/biothics/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 andGovernance(2019),ISBN:978-81-939482-1-7.https://www.insaindia.res.in/pdf/Ethics_Book.pdf
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