<u>Research and Publication Ethics (LS612A)</u>

A S Kharat* (ASK), Alok K Mondal (AKM), K. Natarajan (KN), Samudrala Gourinath (SGN),
A K Nandi (AKN), Sushil K Jha (SKJ)

Modules	Unit title	Teaching hours	Topic	Faculty
THEORY				
RPE 01	Philosophy and Ethics	3	Introduction of philosophy: Definition, Nature and scope, concept, branches	ASK (2)
			Ethics: Definition, moral philosophy, nature of moral judgments and reactions	AKM(1)
RPE 02	Scientific Conduct	5	Ethics with respect to science and research	KN
			Intellectual honesty and research integrity	SKJ
			Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)	KN
			Redundant publications: Duplicate and overlapping publications, Salami Slicing	SGN
			Selective reporting and misrepresentation of data	SGN
RPE 03	Publication Ethics	7	Publication ethics: Definition, introduction and importance	AKN
			Best practices/standards setting initiatives and guidelines: COPE, WAME, etc.	AKN
			Conflicts of interest	AKN
			Publication misconduct: Definition, concept, problems that lead to unethical behavior and vice-versa, types	AKN
			Violation of publication ethics, authorship and contributorship	AKN
			Identification of publication misconduct, complaints and appeals	ASK
			Predatory publishers and journals	ASK
Practice				
RPE 04	Open Access Publishing	4	1. Open access publications and initiatives 2. SHERPA/RoMEO online resource to check publisher copyright & self-achieving policies 3. Software tool to identify predatory publications developed by SPPU 4. Journal finder/journal suggestion tool viz., ZAME, Elsevier journal Finder, Springer journal suggester, etc.	ASK, AKM, KN, SKJ, SGN, AKN
RPE 05	Publication Misconduct	4	**Group Discussion (2 hrs)** 1. Subject specific ethical issues, FFP, authorship 2. Conflicts of interest 3. Complaints and appeals: Examples and fraud from India and abroad	ASK, AKM, KN, SKJ, SGN, AKN
			Software tools (2 hrs) Use of plagiarism software like Turnitin, Urkund and other open-source software tools	ASK, AKM, KN, SKJ, SGN, AKN
RPE 06	Databases and Research Metrics	7	**Databases (4 hrs)** 1. Indexing databases 2. Citation databases: Web of science, Scopus, etc.	ASK, AKM, KN, SKJ, SGN, AKN

				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	ASK, AKM, KN, SKJ, SGN, AKN

Total contact hours: = 30

References

Bird, A. (2006). Philoisophy of Science, Routledge.

MacIntyre, Alasdair (1967) A Short history of Ethics. Lonon

P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiariszed, 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, DB (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/whatis/index.cfm

Beall, J. (2012). Predatory publishers are corrupting open access. Nature, 489(7415), 179-199. doi: 10.1038/489179a.

Indian National Science Academy 9INSA), Ethics in Science Education, Research and Governance (2019), ISBN:978-81-939482-1-7. http://www.insaindia.res.in/pdf/Ethocs_Book.pdf