

Department of Mathematics and Statistics

Ph.D. Course Work (Sem-I)

RPE-CC-140	Research & Publications Ethics	L	T	P	C
		2	0	0	2
	Dr. Kavita Shrivastava	Max. Marks : 100			

Unit – I:

Introduction to philosophy: definition, nature and scope, concept, branches
Ethics: definition, moral philosophy, nature of moral judgments and reactions

Unit – II:

Ethics with respect to science and research
Intellectual honesty and research integrity
Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)

Unit – III:

Redundant publications: duplicate and overlapping publications, salami slicing
Selective reporting and misrepresentation of data
Publication ethics: definition, introduction and importance

Unit – IV:

Best practices/standards setting initiatives and guidelines: COPE, WAME, etc.
Conflicts of interest
Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types

Unit – VI:

Violation of publication ethics, authorship and contributorship
Identification of publication misconduct, complaints and appeals
Predatory publishers and journals

Books Recommended:

1. Bird, A. (2006). Philosophy of Science. Routledge.
2. Macintyre, Alasdair (1967) A Short History of Ethics. London.
3. P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN: 978—387480865
4. 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 Academies Press.
5. 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.nih.gov/research/resources/bioethics/whatis/index.cfm>
6. <https://doi.org/10.1038/489179a>
7. 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/EthicsBook.pdf>

Dr. J. K. S.
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5/7/21

Dr. Shukla
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Dr. Vinod Mishra
on his behalf
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