Syllabus for Ph.D. Course Work for Geography
Course – 2 Research and Publication Ethics (RPE)

Unit	Content	Hours
I	**Philosophy and ethics** a) Introduction to philosophy: definition, nature and scope, concept, branches b) Ethics: definition, moral philosophy, nature of moral judgements and reactions.	03
II	**Scientific conduct** a) Ethics with respect to science and research. b) Intellectual honesty and research integrity. c) Scientific misconducts: Falsification, Fabrication and Plagiarism (FFP). d) Redundant publications: duplicate and overlapping publications, salami slicing e) Selective reporting and misrepresentation of data.	05
III	**Publication ethics** a) Publication ethics: definition, introduction and importance. b) Best practices / standards setting initiatives and guidelines: COPE, WAME, etc. c) Conflicts of interest. d) Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types. e) Violation of publication ethics, authorship and contributor ship. f) Identification of publication misconduct, complaints and appeals. g) Predatory publishers and journals.	07
	PRACTICE	
IV	**Open access publishing** 1. Open access publication and initiatives. 2. SHERPA / ROMEO online resource to check publisher copyright & self-archiving policies. 3. Software tool to identify predatory publications developed by SPPU. 4. Journal finder / Journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc.	04
V	**Publication misconduct** **A. Group Discussions (2 hrs.)** 1. Subject specific ethical issues, FFP, authorship. 2. Conflicts of interest. 3. Complaints and appeals: examples and fraud from India and abroad. **B. Software tools (2 hrs.)** Use of plagiarism software like Turnitin, Urkund and other open source software tools.	04

VI	Databases and research metrics	07
	A. Databases (4 hrs.) 1. Indexing databases 2. Citation databases: Web of Science, Scopus, etc. **B. 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.	

References:

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: 978-9387480865
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.niehs.nih.gov/research/resources/bioethics/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 and Governance (2019), ISBN: 978-81-939482-1-7. http://www.insaindia.res.in/pdf/Ethics Book.pdf

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