

Syllabus for Ph.D. Course Work for Geography COURSE 1: Research Methodology

Course learning outcomes:

- CO1. Identify researchable area/topic in geography.
- CO2. Develop a research proposal.
- CO3. Execute different methods of data collection and analysis.
- CO4. Communicate research findings through appropriate mediums.
- CO5. Connect real world with theory and method

Unit	Course content	Teaching Hours
1	Research Methodology: Meaning, Definitions, objectives, characteristics and types. Steps involved in Research. Research Ethics.	13
2	Forms of Research: Paper, Article, workshop, seminar, conference and symposium. Thesis writing: Its characteristics and format. Research Approaches. Developing the Objectives Significance of Research.	14
3	Research Methods: Research Methods versus Methodology. Research and Scientific Method. Problems Encountered by Researchers in India. Sampling techniques for geographical analysis.	14
4	Research Process: Identification of problem, Review concepts and theories, review previous research finding, formulate hypotheses, Design research (including sample design), Data Collection (Execution), Data Analysis, testing of hypotheses, Generalization and Interpretation, Report writing Conclusions, Bibliography.	13

Reading materials:

1. Gilbert, N. (2001): Researching Social Life, Sage, London.
2. Flowerdew, R. and D. Martin (2005): Methods in Human Geography: A Guide for students doing a research project, Prentice Hall, New York.
3. Clifford, N.J. and G. Valentine (2003): Key methods in Geography, Sage, London.
4. Leedy, P. D. and J.E. Ormrod (2001): Practical Research: Planning and Design,

Web resources:

- <http://computer.org> - <http://www.acm.org>
- <http://www.intute.ac.uk/socialsciences/>


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Course-2 Research and Publication Ethics (RPE)

Course Outcome

- CO1.Understanding of basics of philosophy of science and ethics.
 CO2.Knowledge of research integrity.
 CO3.Understanding of publication ethics.
 CO4.Knowledge of identifying research misconduct and predatory publications.
 CO5.Knowledge of Indexing and citation databases.
 CO6.Knowledge of open access publications and research metrics.
 CO7.Knowledge of various plagiarism tools.

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, NAME, etc. c) Conflicts of interest. d) Publication misconduct: definition, concept, problems that lead to unethical behaviour 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 publications and initiatives. 2. SHERPN / RAMEO 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 A. Databases (4 hrs) 1. Indexing databases. 2. Citation databases: Web of Science, Scopus, etc. B. Research Metrics (3 hrs) 1. Impact Factor of a journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score. 2. Metrics: h-index, g-index, i10-index, Altmetrics.	07

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://www.nature.com/articles/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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SCHEME OF EXAMINATION FOR PH.D. COURSE WORK GEOGRAPHY

Course	Particulars	Hours of instruction per week	Duration of Exam (Hrs.)	Marks			
				IA	Theory	Total	Credits
Course 1	Research methodology	4	3	30	70	100	4
Course 2	Research Publication Ethics (RPE)	2	3	30	70	100	2
Course 3	Review of literature	14	-	-	-	150	6
	Review Report Viva		-	-	-	50	2
					Total	400	14


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Ph.D. Course Work Examination
Geography
Paper – I Research Methodology
Paper – II Research and Publication Ethics

Time: 3 hours

Max. Marks: 70

- I. Answer any FIVE of the following: (5x2=10)
- 1.
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
 - 7.
- II. Answer any FOUR of the following: (4x5=20)
- 8.
 - 9.
 - 10.
 - 11.
 - 12.
 - 13.
- III. Answer any FOUR of the following: (4x10=40)
- 14.
 - 15.
 - 16.
 - 17.
 - 18.


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