

**Name of the Programme: Ph.D. (Geography)**

**Course Code: GOG-700**

**Title of the Course: Research Methodology**

**Number of Credits: 04**

**Effective from AY: 2022-23**

<b>Pre-requisites for the Course:</b>	No prerequisites are identified for this course	
<b>Course Objectives:</b>	This course provides a conceptual and practical overview of the diverse research methods used in geography.	
<b>Content:</b>	1. Scientific research: relevance of conceptual framework in research, identification of research problems, objective, hypothesis, research questions, model building in Geography, Paradigm and paradigm shifts in research	15 Hours
	2. Typology of research methods, Descriptive research, exploratory research, explanatory research and research on causality, comparative research, Epistemology in Research, hypothesis testing research, survey research, cross-sectional research, longitudinal research, experimental and quasi-experimental research, evaluation research, case study, pilot study, field research, collaborative approaches, behavioural research, mixed methods	15 Hours
	3. Research and Scientific Analysis Data source, Sampling, Identification of variables, transformation of variable into indicators, literature survey and referencing (citation, footnotes, bibliography), questionnaire preparation, use of tables and illustrations, Writing Dissertation; research ethics and Plagiarism. Nature and Role of Field Survey in Geographical Studies Geographic Enquiry and Field Survey, Field Survey in Physical Geography and Human Geography, Components of Field Survey- Observation, Field Mapping, Data Collection, Focused Group Discussion, Recording Information	15 Hours
	4. Methods and Explanation. Spatial, temporal, dynamic and socio-economic models and explanations. Computer Applications and Cartographic Representation Computer Applications in Data Management and Analysis, Display and Interactions, Cartographic Communication and Visualization, Map Generalization	15 Hours
<b>Pedagogy:</b>	Lectures, Group Discussions, Student Seminars, Presentations, Case Studies, Tutorials, Assignments, Blended learning, Problem-solving approach through logic, Experiential learning, Multi-literacies and discussion-based teaching, Brainstorming, Guided Questioning, Interpretive Trails, Stimulus activities, Critical incidents, Fieldwork and outdoor learning, Flipped classroom pedagogy, Art Integrated Learning, Cutting Edge, Cooperative Learning Strategies. Flipped classroom, Art Integrated Learning, Project-based Learning, Cutting Edge Pedagogy, and Cooperative Learning Strategies.	
<b>References/ Readings:</b>	1. Clifford, N. S. French and G. Valentine (2010). Key Methods in Geography. London: Sage 2. Gomez, B. and Jones, J.P. III (Ed.) (2010). Research Methods in	

	<p>Geography: A Critical Introduction. New York: Wiley-Blackwell</p> <ol style="list-style-type: none"> <li>3. Haines-Young R. H. and J. R. Petch (1986). Physical Geography: Its Nature and Methods. London: Harper and Row</li> <li>4. Harvey, David (2007). Explanation in Geography. Jaipur: Rawat Publications</li> <li>5. Kothari, C.P. (2012). Research Methodology: Methods and Techniques. New Delhi: New Age International</li> <li>6. Kumar, R. (2005). Research Methodology A Step-by-Step Guide for Beginners. London: Sage Publications</li> <li>7. Mishra, S. B. and Alok, Shahsi, Handbook of Research Methodology: A Compendium for Scholars &amp; Researchers, Educreation Pub., New Delhi ISBN: 978-1-5457-0340-3.</li> <li>8. Mishra, H. N. 2017, Research Methodology in Geography, Rawat Publication, ISBN 817033425X, 9788170334255.</li> <li>9. Mishra, R.P. (1989). Research Methodology: A Handbook. New Delhi: Concept Publishing House</li> <li>10. Pagadala, Suganda Devi, 2017, Research Methodology: A Handbook for Beginners, Notion Press, Chennai.</li> <li>11. Stoddart, R. (1982). Field Techniques and Research Methods in Geography. Lincoln: University of Nebraska., <a href="http://digitalcommons.unl.edu/geographyfacpub">http://digitalcommons.unl.edu/geographyfacpub</a></li> <li>12. Lounsbury, J.F. and F.T. Aldrich (1986). Introduction to Geographic Field Methods and Techniques. University of California: C.E. Meril Pub. Co.</li> <li>13. <a href="http://www.itc.nl/~rossiter/teach/msc/ResearchSkillsText_all.zip">http://www.itc.nl/~rossiter/teach/msc/ResearchSkillsText_all.zip</a></li> </ol>
<b>Course Outcomes:</b>	<p>Upon completion of the course, students should be able to:</p> <ol style="list-style-type: none"> <li>1. <b>Critically evaluate</b> the relevance of conceptual framework in research</li> <li>2. <b>Analyze</b> importance of Epistemology in Research</li> <li>3. <b>Understand</b> the scientific analysis of data source</li> <li>4. <b>Examine</b> the Computer Applications and Cartographic Representation in geographic research</li> </ol>