

GIPE Ph.D. Programme

**Gokhale Institute of Politics and Economics, Pune
(Deemed to be a University)**

PhD. Programme

Syllabus of PhD Course Work for 2022-23 onwards



GIPE Ph.D. Programme

Programme Name: Ph.D. Programme

Programme Code: GIPE001

Programme Outcome

- The PhD course work in Economics/Agricultural Economics/ Population and Demography/ Sociology/Law and Economics/ Public Policy is designed to train the research scholars on the fundamentals of scientific research in their respective core areas.
- Students will be inculcated basic training on various aspects of scientific research including literature review, accessing databases, techniques of the research proposal, thesis, and scientific writing.
- Students will be trained in the application of various quantitative and qualitative techniques that are necessary for basic scientific research in various streams of social science.
- This programme will alert and educate the student about the research ethics, plagiarism, copyright and citation. Further, it will offer existing guidelines and legal action in connection with plagiarism.
- This programme will facilitate the candidates to contribute towards the existing stock of knowledge via publication in standard scientific journals of international and national repute. This will ensure wider dissemination of the same among the research fraternity.
- The candidate after successful completion of the Ph.D. Degree will gain necessary skill sets to carry out independent research.

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PROGRAMME SPECIFIC OUTCOME

- Completion of the course work will equip the student to approach their research problem using the basics of the research methodology with conceptual and theoretical clarity.
- Students will be capable to apply their learning experiences of research methodology, quantitative techniques, and software packages to solve the identified research problem with a proper scientific approach.
- Research students will be conscious of the consequences of plagiarism and paraphrasing, research ethics and refrain from any such malpractices while undertaking their future research.
- The programme will familiarize the research students with various databases and techniques of data extraction, analysis and research writing skills.
- Students will be equipped to read and write research articles in reputed journals in the particular domain.
- Course work will train the student to be ready to face the challenges of the PhD research programme and help the student to move forward in their area of specialization.



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Ph.D. Economics/ Agricultural Economics/ Sociology/ Law and Economics/ Public Policy

- The course work will be of one semester (August- December) duration with 16 credits and five courses.

Structure for Ph.D. Course Work

Course Code	Name of the Course	Credit Value	Marks		
			Continuous Evaluation	End Semester Evaluation	Total
PhD001	Research Methodology	4	40	60	100
PhD002	Research and Publication Ethics	2	40	60	100
PhD003	Academic Writing	2	40	60	100
PhD004	Empirical Modelling	4	40	60	100
PhD005 ¹	Advanced Economic Theory- Microeconomics and Macroeconomics	4	40	60	100

A student has to qualify (non-F Grade) in each of the compulsory courses and the grade obtained would be used for final CGPA calculations. On the average, a minimum grade equivalent to 55% of marks has to be obtained by the student in order to be eligible to continue in the Ph.D. programme.

By the end of the Semester, I, Office of the Dean of Research and Publication will set up a RAC (Research Advisory Committee) for each student with the approval of Research and Recognition Committee (RRC) of the University and the Vice Chancellor.

Apart from these compulsory courses, if a PhD student wishes or his/her supervisor(s) or RAC members suggest to opt for any one course or more than one course of the Master Programme of the Institute in any semester, then students can register for the same as certificate course as per the existing rules governing Masters Programme in the Institute.

¹ Scholars who register under the faculty of Sociology, public policy, population studies and Sustainable Development may have to undergo a course in lieu of this course.

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Course Code	PhD001		
Course Title	Research Methodology		
Credits	4	Type	Core

Course Description

This course provides advanced research methodology which is required for doctoral research students. It covers the fundamentals of scientific research, philosophy of scientific research, and research designs for qualitative, quantitative and mixed methods. Further, it provides sampling techniques, scaling techniques, methods of observation and testing of hypothesis. The final segment of this course offers research proposal and report writing strategies. A survey-based field study will also be part of this course.

Course Outcome

By the end of the course, students are expected to be able to:

- Clarity about fundamental methodology of social science research.
- Help the student to select a comprehensive research approach and frame research design, observation tools and enable them to do analysis, interpretation and report writing.
- To provide students with preliminary concepts and training to conduct experiments in economics

Course Structure

Module - I: Fundamentals of Scientific Research

1. Introduction to Research: Meaning, Stages in the Research Process
2. Scientific Methods of Research: Popper, Lakatos, Friedman, Kuhn and McCloskey
3. Epistemology, Ontology and the Methodology of Science.
4. Approaches to Research: Quantitative, Qualitative and Mixed
5. Research Questions and Hypotheses: Meaning, Types and Sources, Theory and Scientific Law, Steps in Testing of Hypothesis
6. Types of Research - Survey Research - Longitudinal Research – Exploratory Research - Experimental Research - Case Study Research - Participatory Rural Appraisal and Evaluation Research

Module - II: Modes of Observation and Scaling Techniques

1. Primary Data: Questionnaire, Interview Schedules, Interview Survey, Postal Survey, Online Survey and Case Study method.



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2. Secondary Data: Types, Sources and Selection Criteria
3. Scaling Techniques: Different types of Scaling Techniques (Thurstone and Likert)

Module - III: Research Design

1. Research Design: Need, Features, Important Concepts of Research Design
2. Review of Literature and Theory: Selection, Collection, Review of Literature Writing and Developing a Theoretical Framework

Module - IV Processing and Analysis of Data

1. Quantifying Data - Coding - Classification and Tabulation - Descriptive Statistical Measures – Averages, Dispersion, Correlation and Regression - Analysis of Time Series- Association of Attributes (Simple problems)
2. Introduction to various socio economic databases – Hands on training on extraction and analysis of Unit level data of NSSO, NFHS, etc.
3. The Nature of Qualitative Research- Ethnography- Participant Observation- Field Notes- Ethical Issues in Qualitative Observation.
4. Analyzing Qualitative Data - Scaling Techniques – Issues in Scaling – Thurston– Likert

Modules V- Introduction to Experimental Economics

1. Introduction to Experiments in Economics: Induced Value Theory: precepts for experiment in economics, Randomization
2. Types of experiments: Laboratory experiments, introduction to experimental software/web resources
3. Field experiments and Randomized Controls Trials, Quasi-experiments
4. Natural experiments & econometric techniques
5. Assessment of the method: Merits and demerits, Internal and external validity of the experimental results

Module - V: Thesis Writing

1. Developing Research Proposal and Writing Thesis –Mechanics of Thesis Writing.

Module – VI Field Study

1. The aim of the field survey is to provide an opportunity for the students to apply the tools, techniques, and methods they learnt to a real world problem.

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References:

- Babbie, Earl. R. 2013. "The Practice of Social Research." Cengage Learning, Canada.
- Blaug, Mark. 1994. "The Methodology of Economics." Cambridge University Press, Cambridge.
- Daniel M. Hausman. 2007. "The Philosophy of Economics: An Anthology." Cambridge University Press, Cambridge.
- Friedman Daniel and Cassar Alessandra (2004), Economics Lab: An Intensive Course in Experimental Economics, Routledge.
- Friedman Daniel and Sunder Shyam (1994), Experimental Methods: A Primer for Economists, Cambridge University Press.
- Goode J. William and Hatt K. Paul. 1952. "Methods in Social Research." McGraw-Hill Publishers, New York.
- Gupta, Santosh. 2003. "Research Methodology and Statistical Techniques." Deep and Deep Publications, New Delhi.
- John W. Creswell. 2014. "Research Design: Qualitative, Quantitative and Mixed Methods Approaches." Sage Publication, Washington, USA.
- Kagel J.H. and Roth A.V. (1997), Handbook of Experimental Game Theory, Princeton University Press.
- Kate L. Turabian. 2006. "A Manual for Writers of Term papers, Theses and Dissertations." The University of Chicago press, Chicago.
- Laljain, Gopal. 1998. "Research Methodology: Methods Tools and Techniques." Mangal Deep Publications, Jaipur.
- Misra R.P. 1988. "Research Methodology: A Hand Book." Concept publishers, New Delhi.
- Mukherjee Neela. 1997. "Participatory Rural Appraisal and Methodology and Applications (Studies in Rural participation-1)." Concept Publishing Company, New Delhi.
- Mukherji, Partha Nath. 2000. "Methodology in Social Research." Sage Publication, New Delhi.
- Sankar.U., and Lakshmanasamy.T. 1993. "Methodology of Applied Economic Research." Sterling Publishers, New Delhi.



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- Smith, V. L. (1976). Experimental Economics: Induced Value Theory. The American Economic Review, 66(2), 274–279. { HYPERLINK "http://www.jstor.org/stable/1817233" \h }
- Thakur, Devendra. 2003. "Research Methodology in Social Science." Deep and Deep Publications, New Delhi.
- Wilkinson, Bhandarkar. 2003. "Methodology and Techniques of Social Research." Himalaya Publishing House, Bombay.
- World Bank: Impact Evaluation the Experience of the Independent Evaluation Group of The World Bank, 38268
- Young, Pauline V. 1994. "Scientific Social Survey Surveys and Research." New Delhi, Prentice Hall of India Private Limited.

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Course Code	PhD002		
Course Title	Research and Publication Ethics		
Credits	2	Type	Core

Course Description

This course focus on the basics of philosophy of science and ethics, research integrity, publication ethics. The objective of this course is to make awareness about the publication ethics and publication misconducts.

Course Outcome:

- To inculcate basic ethics in scientific research.
- The students will be trained on importance of acknowledging peer research and avoiding any malpractice like plagiarism in their research work.

Course Structure

Theory

Module - I: Philosophy and Ethics

1. Introduction to philosophy: Definition, nature and scope, concepts, branches
2. Ethics: Definition, moral philosophy, nature of moral judgements and reactions.

Module - II: Scientific Conducts

1. Ethics with respect to science and research
2. Intellectual honesty and research integrity
3. Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)
4. Redundant publications: Duplicate and overlapping publications, salami slicing
5. Selective reporting and misrepresentation of data.

Module - III: Publication Ethics

1. Publication ethics: Definition, introduction and importance
2. Best practices/standards setting initiatives and guidelines: COPE, WAME, etc.
3. Conflicts of interest
4. Publication misconduct: definition, concepts, problems that lead to unethical behavior and vice versa, types
5. Violation of publication ethics, authorship and contributorship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals

Practice



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Module - IV Open Access Publishing

1. Open access publications 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/journals suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.

Module - V Publication Misconduct

- A. Group Discussions
 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
 1. Use of plagiarism software like Turnitin, Urkund and other open source software tools

Module - VI Databases and Research Metrics

- A. Databases
 1. Indexing databases
 2. Citation databases: Web of Science, Scopus, etc.
- B. Research Metrics
 1. Impact Factor of journals as per Journal Citation Report, SNIP, SJR, IPP, Cite Score
 2. Metrics: h-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 plagiarised. 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 Academic Press.
5. Resnik, D. B. 2001. "What is ethics in research & why is it important," *National Institute of Environmental Health Sciences*, 1-10. Retrieved from { HYPERLINK "http://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm" \h }
6. Beall, J. 2012. "Predatory Publishers are corrupting open access." *Nature*, 489 (7415): 179- 179.
7. Indian National Science Academy (INSA), "Ethics in Science Education, Research and Governance (2019), ISBN: 978-81-939482-1-7. { HYPERLINK "http://www.omsaomdoa.res.in/pdf/Ethics_Book.pdf" \h }

