

SYLLABUS FOR PH.D. IN ECONOMICS

2026-2027



NAAC 'A'

**DEPARTMENT OF ECONOMICS
MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY
SRIRAM CHANDRA VIHAR, TAKATPUR, BARIPADA
MAYURBHANJ, ODISHA, 757003**

COURSE STRUCTURE

2026-27

Paper Code	Name of the Paper	Credit	Marks
ECO-801	Research Methodology	04	100
ECO-802	Research & Publication Ethics	02	100
ECO-803	Literature Review & Presentation	06	100
Total		12	300

Ph.D. Economics

Programme outcomes

The Ph.D. programme in Economics has been designed to obtain the following outcomes that include the followings.

- Creation of trained human resources for research in Theoretical Modelling in Economics, and in diverse issues relating to Development Economics, through the induction of doctoral students in appropriate research areas.
- Creation of trained human resources for regional economic research in North Bengal and its adjoining areas, through the induction of doctoral students in appropriate research areas.
- Advancement of academic understanding of regional planning needs through a continuous dialogue with regional development agencies.
- Integration of regional economic research on policy issues into a regional development programme, by instituting an appropriate mechanism of delivery.
- To provide an opportunity for students to study the application of economics in depth, which someone may wish to apply for building blocks in the area of research.

ECO – 801

RESEARCH METHODOLOGY

Credits: 04

Outcomes: This is a course for studying various methods for conducting social science research. It deals with various approaches, methods, tools and techniques. Further, it deals with basic knowledge on computer, data, and the estimation of statistical tools by using software and analysing the results of economic relationships, testing economic hypotheses and forecasting. By the end of the course, the student should be able:

- To become familiar with basic knowledge of research methodology and sampling techniques.
- To become familiar with basic knowledge of computers, with statistical software, to draw distributive tables, graphs, and trend lines.
- To estimate the parameters of regressions with the help of software and interpret the results.

Unit – 1: Introduction to Research & Review

Scientific and Social Science Research: Nature, Objectives and Limitations; Meaning of research in Economics: Different types of research, Criteria of good research, Problems in Social Science Research; Preparation of a research proposal and the formulation of research

design; Research Design: Meaning, Types and Its different Criteria;

Literature Review: Meaning, Objectives, Types, Sources. Narrative & Systematic Literature Review. Research Gap and Formulation of hypothesis and objectives.

Unit – 2: Data Collection and Processing

Meaning, Types and Importance of data; Methods of Collecting Primary and Secondary data; Census Vs Sample, Sampling Techniques, Ideal Sample Size Determination, Sampling & Non-sampling error, Problems in Sampling; Tools of data collection

Unit – 3: Data Analysis Using Excel & SPSS

Data Visualisation using Tables & Graphs, Descriptive Statistics, Correlation, Regression, ANOVA, t, Z, and χ^2 test.

Unit – 4: Hypothesis Testing & Report Writing

Techniques of Testing of Hypotheses (Parametric and Non-parametric), Null and Alternative Hypothesis, Goodness of Fit, Confidence Interval, Power of Test, Significance Level, Type I & II Errors, Procedure for Testing of Hypothesis, Report Writing

Reading List

- 1) Bryman, A., & Cramer, D. (2011). *Quantitative data analysis with IBM SPSS 17, 18 & 19: A guide for social scientists*. Routledge.
- 2) Cochran, W.G. (1963). *Sampling Techniques*. John Wiley & Sons, New York.
- 3) Goode, W. J., and Hatt, P. K. (1952). *Methods in Social Research*. McGraw-Hill, New York.
- 4) Gupta, S. C. (2014). *Fundamentals of statistics*. Himalaya Publishing House.
- 5) Kothari, C. R. (2004). *Research Methodology: Methods and Techniques*. New Age International Publishers.
- 6) Saxena, R. K. (2010). *SPSS in social science research*. Himalaya Publishing House.
- 7) Wilkinson, S. and Bhandarkar, P. L. (1977). *Methodology and Techniques in Soc Research*. Himalaya Publishing House, Bombay.

ECO – 802
RESEARCH & PUBLICATION ETHICS
Credits: 02

Outcomes: The course aims to familiarize scholars with publication ethics, research integrity, publication misconduct, predatory journals, indexing and citation databases, research metrics (citations and impact factor), the use of plagiarism detection tools, and the use of inferential statistics and multivariate analysis for conducting quality social science research. Further, it deals with basic knowledge of computers and estimation of statistical tools, analysing the results of economic relationships, testing hypotheses and forecasting.

Unit – 1: Research Ethics

Philosophy and ethics and Scientific Conduct: Introduction to philosophy: definition, nature and scope, concepts and branches, Ethics: Definition, Moral Philosophy, Nature of moral judgments and reactions. Ethics with respect to science and research, Intellectual honesty and research integrity, scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP).

Unit-2 Research Ethics:

Meaning, Types, Ethical Approaches (Deontological, Skepticism & Utilitarian), Ethical Guidelines in Social Science Research, Intellectual honesty and research integrity; Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP), Concealment and Deception; Plagiarism: Meaning, Types, Checking of Plagiarism Using Turnitin, How to Avoid Plagiarism, Do's and Don'ts.

Unit – 3: Publication Ethics

Publication Ethics: meaning, importance, best practices, COPE, WAME, etc, conflicts of interest; Redundant Publications: duplicate and overlapping publications, salami slicing, selective reporting and misrepresentation of data; Publication Misconduct: Meaning, Publication in Predatory Journals, Violation of copyright, authorship

Unit -4 Database and Research Metrics:

Indexing databases, Citation databases-WoS, Scopus, DBLP, IF, SNIP, SJR, Cite Score, h-index, i10 index, g-index, altmetrics.

Suggested Readings:

Academic Integrity and Research Quality, [https://www.ugc.ac.in/e-book/Academic and Chaddah, P. Ethics in Competitive Research: Do not get scooped: do not get plagiarized,](https://www.ugc.ac.in/e-book/Academic%20and%20Research%20Quality.pdf) 2018 ISBN:978-9387480865

Consortium for Academic Research and Ethics CARE, source: [https://www.ugc.ac.in/ebook Indian National Science Academy \(INSA\), Ethics in Science Education, Research and Governance \(2019\),ISBN:978-81-939482-1-7. \[http://insaindia.res.in/pdf/Ethics_Book.pdf\]\(http://insaindia.res.in/pdf/Ethics_Book.pdf\).](https://www.ugc.ac.in/ebook/Indian%20National%20Science%20Academy%20(INSA)%20Ethics%20in%20Science%20Education%20Research%20and%20Governance%20(2019).pdf)

Patwardhan B., Desai A., Chourasia A, Nag S., Bhatnagar R. 2020. Guidance Document: Good Academic Research Practices. New Delhi: University Grants Commission. [Research/mobile/index.html](https://www.ugc.ac.in/ebook/Good%20Academic%20Research%20Practices.pdf)

Resnik, D. B. what is ethics in research & why is it important. National Institute of Environmental Health Sciences, 1-10, 2011. Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>

ECO-803
LITERATURE REVIEW AND PRESENTATION
Credits: 06

Outcomes: The purpose of this course is to gain an understanding of the existing research and debates relevant to a particular topic and area of study. It helps the students learn the way to present that knowledge in the form of a report. Conducting a literature review helps them build their knowledge in their respective field of work. The course provides the foundation of knowledge on the topic and identifies areas of interest. It also helps in preventing duplication of work and giving credit to other researchers.

The course also engages the learners in a formal debate. It promotes the involvement of students in group work and teamwork and encourages them to carry out studies to address different socio-economic issues.
