

Name of the Programme : Ph.D. (Economics)

Course Code : ECO-700

Title of the Course: Research Methodology

Number of Credits: 4

Effective from AY: 2023-24

<b>Prerequisites for the course:</b>	Post graduate in any discipline	
<b>Course Objective:</b>	Provide exposure to incoming research students in economics to a broad range of research protocols and methods	
<b>Content:</b>	<b>Module -1: Objectives and types of research:</b> Motivation and objectives – Research methods vs Methodology. Types of research – Descriptive vs. Analytical, Applied vs. Fundamental, Quantitative vs. Qualitative, Conceptual vs. Empirical. Defining and formulating the research problem - Selecting the problem - Importance of literature review in identifying research gap, Development of working hypothesis.	15 Hours
	<b>Module-2 Research design and methods:</b> Research design – Basic Principles- Need of research design — Features of good design – Important concepts relating to research design – Observation and Facts, Laws and Theories, Prediction and explanation, Induction, Deduction, Development of Models. Developing a research plan - Exploration, Description, Diagnosis, Experimentation. Determining experimental and sample designs.	15 Hours
	<b>Module- 3: Data Collection and analysis:</b> Execution of the research - Observation and Collection of data - Methods of data collection – Sampling Methods- Data Processing and Analysis strategies, Hypothesis Testing, Probability Distribution – Normal, Student ‘t’-distribution, chi-square & F-distribution – Hypothesis Testing for Statistical Significance – Correlation and two variable regression, Anova test.	15 Hours
	<b>Module -4: Reporting and thesis writing:</b> Structure and components of scientific reports - Types of report – Technical reports and thesis – Significance – Different steps in the preparation – Layout, structure and Language of typical reports – Illustrations and tables - Bibliography, referencing and footnotes - Oral presentation – Planning – Preparation – Practice – Making presentation – Use of visual aids - Importance of effective communication.	15 Hours
<b>Pedagogy:</b>	In class or MOOC of GU	
<b>References/ Readings</b>	<ol style="list-style-type: none"><li>1. Kothari C.R., Garg, Gaurav; (2020), <i>Research Methodology</i>, Fourth Edition, New Age International, New Delhi..</li><li>2. John W. Creswell. 2014. “<i>Research Design: Qualitative, Quantitative and Mixed Methods Approaches</i>, Fourth Edition, Sage, NewDelhi.</li><li>3. Babbie, Earl. R. 2013. “<i>The Practice of Social Research.</i>” Cengage Learning, Canada.</li><li>4. Young P.V., <i>Scientific Social Surveys and Research</i>, Prentice Hall of India Pvt Ltd, 2012.</li><li>5. Cooper, R. Donald and Pamela S. Schindler (2003) <i>Business Research Methods</i>, Delhi, Tata McGraw-Hill.</li><li>6. Kumar, Renjith (2009) <i>Research Methodology: A Step by Step Guide for Research</i>, Delhi, Pearson Education.</li><li>7. Uma, Shekaran; and Bougie, Roger (2016) <i>Research Methodology for Business: A Skill Building Approach</i>, Wiley, New York, John Wiley Publishers.</li><li>8. Kate L. Turabian. 2006. “<i>A Manual for Writers of Term papers, Theses and Dissertations.</i>” The University of Chicago press, Chicago.</li></ol>	
<b>Course Outcomes</b>	Upon completion of this course, the students are expected to: <ol style="list-style-type: none"><li>1. Develop the most appropriate methodology for the research studies of their choice.</li><li>2. Familiarize and differentiate the use of various research methods and techniques.</li><li>3. Define a research problem and prepare the appropriate research design for the research problem.</li><li>4. Illustrate the data collection techniques and data analysis and presentation.</li><li>5. Demonstrate the sampling techniques and its fundamentals.</li><li>6. Familiarize the task of interpretation and the art of writing research reports.</li></ol>	