Course title: Research Methodology in Economics			
Course code: UEO 401	**No. of credits:** 4	**L-T-P:** 38-8-28	**Learning hours:** 60
Pre-requisite course code and title (if any): Microeconomics and Macroeconomics			
Department: Department of Policy and Management Studies			
Course coordinator(s): Prof. Sukanya Das	**Course instructor(s):** Guest Faculty		
Contact details: sukanya.das@terisas.ac.in			
Course type: Core	**Course offered in:** Semester 7		

Course description

This course provides students with an initial exposure to research and explains how to conduct basic research in economics. It familiarizes them with the entire spectrum of research design, beginning with theories, concepts, frameworks, and models, and culminating in the development of a research proposal for the thesis to be completed in the eighth semester.

Course objectives

1. To provide the students an exposure to some stages of research in economics, from conceptualization to proposal writing.
2. To make the students understand the significance of academic rigor, logical consistency and expositional clarity in research.

Course content

Module	Topic	L	T	P
1.	**Introduction** Introduction to Research Methodology Research Philosophy and Ethics	9		
2.	**Research Theories and Practice** Approaches of Karl Popper, Milton Friedman and others; Concepts of falsifiability, positivism, etc**.**	4		
3.	**Research Design: Research Problem, Research Questions and Research Method** Goals, aims, objectives, Requirements for and of a Hypothesis, Case study method	6		
4	**Narrative and Systematic Literature Reviews**	4		
	Presentation of Research Concept Note			14
5	**Nature of the Data- Primary and secondary data** **Secondary Data** Collecting and analyzing Secondary Data, illustrations from secondary datasets- National Sample Survey (NSS); Annual Survey of Industries (ASI), IHDS, etc Triangulation of secondary data	3	4	
6	**Primary data** Data collection methods -qualitative and quantitative, mixed methods Sampling strategy, Framing of questions and Design of questionnaire Conducting Field survey—issues and challenges, Focus group discussion, PRA, transect walk. Triangulation of primary data. Tutorial- CAPI method.	8	4	
7	**Writing up the research proposal** Formulating a research proposal and the components Research Ethics- Scientific conduct, publication ethics Institutional ethics, Ethical use of Artificial Intelligence (AI) in research	4		
	Presentations of Proposals			14
	Total	**38**	**8**	**28**

Evaluation criteria

1 **ASSESSMENT 1**: Research Concept Note – **20%** (learning outcome 2)

Suggested weights in total marks

25% each on (a) research question and (b) method and data

10% each on (c) title, (d) research problem, (e) research objectives, (f) background, and (g) integration & coherence.

2 **ASSESSMENT 2**: Presentation of Research Proposal – **30%** (learning outcome 1)

Suggested Weights in total marks:

20% each on (a) method of analysis, (b) integration & coherence and (c) clarity of presentation 10% each on (d) literature review, (e) expected findings/discussion of results, (f) quality of visual presentation and (g) responses during Q & A session.

3 **ASSESSMENT** 3: Research Proposal – **50% (learning** outcome 2)

Suggested weights in total marks

20% each on (a) problem statement and research question and (b) method of analysis

10% each on (c) abstract, (d) introduction, (e) literature review, (f) expected findings, (g) list of references and (h) integration & coherence.

Learning Outcomes

1. Students will develop organization and time management skills required to produce their own research analysis
2. Skills for making effective presentations.
3. Ability to prepare a comprehensive research proposal.

Reading Materials

CORE:

Walliman, N. (2021). *Research methods: The basics*. Routledge.

Kothari, C. R. (2004). *Research methodology: Methods and techniques*. New Age International.

Module 1

Kothari, C. R. (2004). *Research methodology: Methods and techniques*. New Age International.

Module 2

Mark Blaug (1980) The methodology of Economics.

Walliman, N. (2021). *Research methods: The basics*. Routledge.

Edella Schlager. 2007. 'A Comparison of Frameworks, Theories, and Models of Policy Processes', in *Theories of the Policy Process* edited by Paul A. Sabatier, Colorado: Westview Press.

Fritz Machlup. 1978. 'Fact and Theory in Economics' and 'The problem of verification in Economics' in *Methodology of Economics and Other Social Sciences,*101-130 and 137-157. New York: Academic Press.

Module 3

Walliman, N. (2021). *Research methods: The basics*. Routledge.

Kothari, C. R. (2004). *Research methodology: Methods and techniques*. New Age International.

Mark Kanazawa. 2018. 'General research design principles' and 'The case study method' in *Research Methods for Environmental Studies,* 40-59, 182-203. London and New York: Earthscan

Module 4

John A. Collins, Bart C.J.M. Fauser, Balancing the strengths of systematic and narrative reviews, *Human Reproduction Update*, Volume 11, Issue 2, March/April 2005, Pages 103–104, https://doi.org/10.1093/humupd/dmh058

Module 5

Kothari, C. R. (2004). *Research methodology: Methods and techniques*. New Age International

MOSPI. 2017. National Accounts Statistics Sources and Methods 2007. New Delhi: Government of India, available online at http://www.mospi.gov.in/publication/national-accounts-statistics-sources-and-methods-2007-0

Module 6

Martha A. Starr. 2012. 'Qualitative and mixed methods research in economics: surprising growth, promising future" *Journal of Economic Surveys* 28 (2): 238-264

Mark Kanazawa. 2018. 'Data Collection 1: Principles of Surveying' and 'Data Collection II: Interviewing' in *Research Methods for Environmental Studies,* 285-312 and 313-332. London and New York: Earthscan

John W Creswell and David J Creswell. 2018. 'Quantitative Methods' in *Research Design: Qualitative, quantitative and Mixed methods approaches,* 155-182, New Delhi: Sage

John W Creswell and David J Creswell. 2018. 'Qualitative methods' in *Research Design: Qualitative, quantitative and*

Mixed methods approaches, 183-213, New Delhi: Sage

Transect Walk, World Bank, https://documents1.worldbank.org/curated/en/099434505122316667/pdf/IDU1d480143f1f8da141fd18e431fca01a2a88be.pdf

Module 7

Walliman, N. (2021). *Research methods: The basics*. Routledge.

Kothari, C. R. (2004). *Research methodology: Methods and techniques*. New Age International.

Chapter 4 – Research Ethics in Walliman, N. (2021). *Research methods: The basics*. Routledge

Additional readings

Mukherjee, C., White, H., & Wuyts, M. (2013). *Econometrics and data analysis for developing countries*. Routledge.

Course prepared by: Prof. Sukanya Das

Student responsibilities: Attendance, concept note and proposal presentations and submission, discipline: as per university rules**.**

Course Reviewers:

1. Prof Pulak Mishra, Professor (Economics), Department of Humanities and Social Sciences, IIT Kharagpur.
2. Dr Chandrasekhar Bhaninipati, Associate Professor (Economics), Department of Humanities and Social Sciences, IIT Tirupati.
3. Dr Susmita Mitra, Assistant Professor, Council for Social Development, New Delhi.