



ICSSR-ERC Sponsored Two-Week International Workshop

on



“Quantitative and Qualitative Methods of Research in Social Sciences”

Organised by

The Department of Economics, Vidyasagar University, West Bengal, India

during August 18–31, 2025

Resource Persons



Dr. Saibal Kar
Professor, Department of
Economics, CSSSC, Kolkata, India



Dr. Bibhas Saha
Professor, Durham University
Business School, UK (Online)



Dr. Panchanan Das
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Economics
University of Calcutta, India



Dr. Soumyananda Dinda
Professor, Department of
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Dr. Pulak Mishra
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Dr. Girijasankar Mallik
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Dr. Anup Kumar Bhandari
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Dr. Debabrata Mukhopadhyay
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Economics, West Bengal State
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Dr. Gagari Chakraborty
Professor, Department of
Economics, Presidency University,
India

Announcement and Call for the Workshop

The Department of Economics, Vidyasagar University, Midnapore, West Bengal, India, announces the ICSSR-ERC funded Two Week International Workshop to be held during August 18-31, 2025. A large number of teachers, scholars and researchers from Economics and related disciplines of social sciences, from different parts of India and abroad, are likely to participate in the prestigious international academic program. In addition to the lectures on the related themes of the workshop there will be the hands on practical.

Objectives of the Workshop

So far as the experience of teaching and research as well as the trends of publications in the fields of Economics and other social sciences are concerned many of the researchers used to conduct empirical exercises without much or deeper knowledge on the basic theories behind the empirical techniques, they merely use the software/package by means of some first-hand data running techniques available in the internet with online video tutorials/manuals. The long run outcomes of these immature applications might lead to narrowness of the future of any disciplines like social sciences. The present workshop, thus, has the following objectives-

- To familiarize participants with new theories on Economics with empirical validations
- Reorienting the scholars/researchers with qualitative and quantitative research methodologies
- To enhance research skills through practical applications of data collection and analysis techniques.
- To provide hands-on training on statistical and econometric software such as SPSS, STATA, EViews, Python, R, and NVivo

Sub-Themes and Topics Covered

The workshop will provide an advanced exploration of methodological approaches in social science research, integrating both **qualitative and quantitative perspectives**. The following themes will be covered:

I. Theoretical Foundations of Social Science Research

- Understanding the evolution and importance of qualitative and quantitative research methodologies in social sciences.
- Fundamental theories and models relevant to research in Economics and other social sciences

II. Research Design and Sampling Techniques

- Sampling techniques and survey design for large-scale studies
- Experimental and quasi-experimental research

designs for empirical validation

III. Advanced Quantitative Research Methods

- Regression Analysis and Hypothesis Testing – Fundamental and advanced techniques
- Structural Equation Modelling (SEM) for complex variable relationships
- Simultaneous Equation Systems and their applications in economic research
- Causal Inference Techniques – Including Difference-in-Differences and Propensity Score Matching
- Instrumental Variable (IV) and Logistic Regression for robust modelling

IV. Time Series Analysis and Forecasting Techniques

- ARIMA, VAR, and VECM Models for time-dependent data analysis
- Cointegration and Error Correction Models for long-run relationships in economic variables
- Machine Learning Approaches in Time Series for predictive analysis

V. Panel Data Analysis and Applications

- Fixed and Random Effects Models for longitudinal data analysis
- Panel Unit Root, Panel Cointegration, Panel VAR, and Panel VECM Models
- Generalized Method of Moments (GMM) for dynamic panel estimation
- Cross-Sectional Dependence Tests for addressing panel data correlations

VI. Qualitative Research Methods in Social Sciences

- Ethnography and Case Study Methods for in-depth social analysis
- Discourse Analysis and Grounded Theory for exploring narratives and text-based research
- Mixed-Method Research Approaches integrating qualitative and quantitative methods
- Application of NVivo for Qualitative Data Analysis – Text mining and thematic coding

VII. Big Data and Artificial Intelligence in Social Science Research

- Artificial Neural Networks and Machine Learning in predictive modeling
- Sentiment Analysis and Natural Language Processing (NLP) for understanding public discourse
- Predictive Analytics and Social Science Applications – Utilizing AI-driven insights

VIII. Hands-on Training with Research Software

- Statistical Tools: SPSS, STATA, EViews, R, Python for data analysis
- Qualitative Tool: NVivo for qualitative research and text analytics

IX. Academic Writing and Publishing Strategies

- Writing Research Proposals and Grant Applications for funding opportunities
- Structuring Research Papers for High-Impact Journals – Enhancing publication quality
- Reference Management and Citation Practices using Zotero and Mendeley

Mode of Participation

Physical mode of participation is mandatory for the participants within the State of West Bengal. The participants outside West Bengal and outside India may participate online.

Fees and Payments

The registration fee is **Rs 3000/- for faculty, Rs 4000/- for corporates, and Rs 2000/- for research scholars**. The registration fee includes workshop kits, tea, snacks, and daily lunch. The details of payments of registration fees are in the next section. Outstation participants may be provided accommodations (lodging only) subject to the availabilities which will be considered upon their prior requests on the payment ranging from Rs. 300/- to Rs. 1000/- (depending on accommodation, AC/non- AC, etc. types) per head/night in addition to the stipulated registration fees.

Payments Gateway

All the payments are to be made online to the following account-

Account Name: Vidyasagar University

Account Number: 17480100003992

Bank: UCO Bank

IFSC Code: UCBA0001748

Branch: Vidyasagar University

Participants are required to upload a screenshot of the payment receipt (deposit / transfer confirmation) and enter the corresponding UTR number in the Google Form. The link for Google Form for registration is given below:

<https://forms.gle/wPhsp4qwH3G9Zx569>



Last Date of Registration: August 16, 2025, 11.59pm

Workshop Committee

Patron

Prof. Dipak Kumar Kar

Hon'ble Vice-chancellor, Vidyasagar University

Organizing Secretary

Prof. Mihir Kumar Pal, Department of Economics,
Vidyasagar University

Joint Organizing Secretary

Prof. Sebak Kumar Jana, Department of Economics,
Vidyasagar University

Convenors

Prof. Ramesh Chandra Das, HOD, Department of
Economics, Vidyasagar University

and

Prof. Pinaki Das, Department of Economics,
Vidyasagar University

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Dr. Sudipta Jha, Department of Economics, Vidyasagar
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Registration and Accommodation

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**For any query, please contact the Convenors of the
Conference**

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