



**Five-Day Workshop
on
Panel Data Econometrics using STATA:
Applications to Health and Nutrition**

28th January – 1st February 2025



Organized by
Department of Humanities and Social Sciences,
In Collaboration with
Centre of Excellence on Public Health Nutrition,
National Institute of Technology Rourkela

Information Brochure

About the Programme

Panel data econometrics is an essential tool in the fields of economics, management and finance. It helps researchers and practitioners in these fields to analyse longitudinal data—data collected by pooling observations on a cross-section of households, countries, firms, etc. over several time periods. Variation over time gives more insight than a cross-section, which provides only a snapshot at one moment in time. With micro and macro panels becoming increasingly available, one can model the heterogeneity and evaluate the dynamic changes over time. Be it studying the behaviour of households and firms, estimating the impact of policies, predicting economic outcomes or evaluating the effectiveness of interventions, the applications of panel data econometrics is endless. At the same time, the theoretical underpinnings and underlying statistical principles should be given importance too. This workshop is intended to provide a practical introduction to panel data econometrics using a statistical software package STATA, as well as a thorough discussion of linear and non-linear panel data methods, dynamic panel data estimation, non-stationary panel data econometrics. Furthermore, it will address the growing demand for rigorous quantitative impact evaluation of development programs in public health nutrition programs.

Objective of the Workshop

The workshop aims to provide researchers with the necessary skills to apply panel data econometric techniques effectively in the dynamic fields of economics and social science, emphasizing the importance of data-driven decision-making for impactful policymaking. Through hands-on sessions and applications to recent databases, the workshop covers both basic and advanced concepts and techniques of panel data analysis. This training programme will aim:

1. To provide theoretical skills in basic Econometrics and Statistical models, fundamental understanding of basic regression techniques, and introduction to basic and intermediate Panel Data Econometrics.
2. Introduce participants to the major databases in social science research and health economics such as NSSO, ASI, NFHS, LASI, WDI, WGI, UNDP, WPP, ProwessIQ etc.
3. To provide interactive and practical sessions with hands-on experience of econometric software STATA.
4. To facilitate a basic understanding of quantitative impact evaluation techniques (PSM, DID) for public health nutrition programs.

Broad overview of the course

Module I: Introduction to Classical Linear Regression Models

Module II: Linear Panel Data Models: Theory and applications

Module III: Introduction to Dynamic Panel Data Models: Data sources for health and nutrition, theory and applications

Module IV: Advanced Panel Data Econometrics and Non-Stationary Panels

Module V: Data Visualisation and Quantitative Impact Evaluation for Public Health Nutrition Programs

Participants

Registered Ph.D. research scholars, early career researchers and faculty members from research institutions, state/central universities and colleges are eligible to apply. Maximum of 20 participants will be selected for the workshop. The committee decision on the selection of participant is final and binding. Participants are requested to bring their own laptops for the practical sessions and research practice. Prior working knowledge in Stata is recommended, however, some knowledge of basic statistics and/or econometrics is essential.

Resource persons

Eminent and accomplished faculty members from premier institutions in India and faculty members of NIT Rourkela will deliver the lectures, followed by interactive sessions and hands-on training on the subject.

Travel and accommodation details

Depending on the availability of funds, travel reimbursement up to III-Tier AC in the shortest route or bus fare 'to and from' Rourkela will be provided to outstation participants. Taxi, Own Car Mileage, Auto, Air Fare shall not be admissible under any circumstances. Free accommodation will be provided to all outstation participants in the NITR Guest Houses on twin-sharing basis during the workshop. Local hospitality including breakfast, lunch and dinner will be provided.

Certification

Certificates of completion will be given to the registered participants after successful completion of the course. Full attendance is compulsory for the participation certificates.

How to reach NIT Rourkela

En route Howrah-Mumbai main line of South Eastern Railway, the city is well connected to all major cities of India by railway network and inter- and intra-state bus services. It takes around 2 hours from Jharsuguda, 6 hours from Kolkata and around 3 hours from Ranchi airport by train. Rourkela railway station is approximately 6 kms from NIT Campus. Rourkela airport is also functional, with connecting flights available to and from Bhubaneswar and Kolkata.

Registration fee

There is Rs 1000/- registration fee for this econometrics workshop that is chargeable only from the shortlisted candidates. Filled in application forms (attached) along with a short CV of max 2 pages should be mailed to royi@nitrkl.ac.in on or before 5th January 2025. The final list of participants will be decided by the organising committee and informed by 12th January 2025. Confirmation emails will be sent only to the shortlisted candidates along with the registration and payment details.

Venue

Department of Humanities and Social Sciences, NIT Rourkela.

About NIT Rourkela

National Institute of Technology Rourkela, an institute of national importance, is one of the premier national level institutions for technical education in the country and is funded by the Government of India. With a vision to become an internationally acclaimed institution of higher learning that will serve as a source of knowledge and expertise for the society and be a preferred destination for undergraduate and graduate studies, NIT Rourkela has been constantly striving to serve the society since its very inception in 1961. At present, it ranks 67 in QS Southern Asia University Rankings (2024), between 291-300 in QS ASIA University Rankings (2024), 30 in NIRF Research (2024), and is steadily progressing to achieve all the epitomes of world level recognitions.

About the Department

The Department of Humanities and Social Sciences has been functioning as a full-fledged department catering to both undergraduate and postgraduate students. The faculty has wide experience in teaching and research and in communicating with students of diverse backgrounds. The Department offers a full-time PhD programme in the disciplines of Economics, Anthropology, Sociology, Psychology, English, and Sanskrit; an MA Programme in Development Studies; and also offers compulsory open electives to undergraduate and postgraduate students of the institute.

About the Center of Excellence on Public Health Nutrition (CoE-PHN)

The Department of Humanities and Social Sciences, NIT Rourkela has established a Centre of Excellence in collaboration with UNICEF. The primary objective of the CoE is to strengthen collaboration on knowledge management for child survival and development. The Centre intends to focus on all 30 districts of Odisha. It conducts various assessments and studies, develops policy notes, processes documentation and situational analyses, facilitates workshops/training, and engages in academic collaborations and knowledge management.

Important dates

- Duration of the workshop: **28 January -1 February 2025**
- Last date to receive applications from participants: **5th January 2025 (5.00 PM)**
- Confirmation to selected candidates: **12th January 2025**
- Confirmation from participants along with the payment receipt: **15th January 2025**

Organising Committee

Chief Patron

Prof. K. Umamaheswar Rao, Director, National Institute of Technology Rourkela, Odisha

Chairperson

Prof. Narayan Sethi, Professor and Head, Department of Humanities and Social Sciences,
National Institute of Technology Rourkela, Odisha

Principal Coordinator

Dr. Ipsita Roy, Assistant Professor, Department of Humanities and Social Sciences
National Institute of Technology Rourkela, Odisha

Coordinators

Mr. Sourav Bhattacharjee, Nutrition Specialist, UNICEF, Bhubaneswar
Prof. Narayan Sethi, Professor and HoD, Department of Humanities and Social Sciences,
National Institute of Technology Rourkela

Prof. Jalandhar Pradhan, Professor, Department of Humanities and Social Sciences,
National Institute of Technology Rourkela

Contact Person:

Tamal Reja

Senior Research and Programme Associate, CoE-PHN, National Institute of Technology
Rourkela

Phone: 9892404598

APPLICATION FORM

(Please fill the form in Capital Letters and strike out whichever is not applicable)

1. Full Name:
2. Gender:
3. Date of Birth:
4. Correspondence Address:

5. Email:
6. Mobile/Phone:
7. Highest Educational Degree/highest qualification:
8. Position held:
9. Name of the University/Institute/College:
10. Discipline/Subject:
11. Are you familiar with any basic statistics/econometrics? Yes/No
12. Are you familiar with STATA? Yes/No
13. Have you attached a CV (max 3 pages) along with the publication details? Yes/No
14. Accommodation Required: Yes/No

Declaration:

I hereby declare that the above information is true to the best of my knowledge and belief.

Date:

Signature of the Applicant

Recommended by:

Name and Designation:

Organisation:

Signature: