



# International Summer School

An Introduction to Modern Microeconometrics Using Stata  
A Simulation-Based Approach

June 17 – 21, 2024

Department of Humanities and Social Sciences, IIT Kharagpur, INDIA

In this intensive five-day summer school, participants will explore modern microeconomic methods and learn how to use them in Stata. Through hands-on activities and simulation techniques, attendees will gain a comprehensive understanding of these models. Topics include basic linear and nonlinear models with both exogenous and endogenous covariates, stack-the-moment-equation inference, and solutions for multiple comparison problems. Additionally, the course covers causal inference for cross-sectional data, difference-in-difference methods for panel and repeated-cross-sectional data, as well as covariate selection methods like the lasso, with a focus on conducting valid inference post-selection.

## Topics

- Basic tools; Linear and non-linear models with exogenous covariates; Stacking the moment equations
- Linear and non-linear models with endogenous covariates (Part I); Endogenous sample selection
- Causal inference for cross-sectional data (Part I & II)
- Causal inference with endogenous treatments; Difference-in-Difference estimators for causal inference for repeated cross-sectional and panel data
- Inference after covariate selection (Part I & II)

## Resource Person

### Dr. David Drukker

Associate Professor, Sam Houston State University  
Former Executive Director of Econometrics  
StataCorp, USA

## Important Dates

- Last Date of Application: **April 20, 2024**
- Selection of Participants: **April 24, 2024**
- Last Date of Registration and Payment of Fee: **April 30, 2024**
- Invitation Letters will be sent to the participants by **May 7, 2024**

## Registration Fees (Including GST)

Reg. Type	Amount
Post-graduate Students/ Research Scholars*	INR 14,160/- only
Professionals/ Faculty Members **	INR 17,700/- only
International Participants (only for SAARC Countries) **	USD 300/- only

\* Excluding accommodation, which will be in SAM Guesthouse on a sharing basis (AC Rooms) @ INR 350/- per person per day

\*\* Excluding accommodation, which will be in Technology Guesthouse on a sharing basis (AC Rooms) @ INR 1,120/- per person per day (including GST)

Notes: 1. Seats are limited and vary across categories

2. Payments will be after selection only and in online mode. The link and QR Code will be provided later.

# Program Schedule

June 16 – 21, 2024

Venue: Computer & Informatics Centre (CIC) Lab - IIT Kharagpur

<b>Sunday, June 16</b>	<ul style="list-style-type: none"><li>• <b>Registration: 4 PM – 5:30 PM</b></li></ul>		
<b>Monday, June 17</b>	<ul style="list-style-type: none"><li>• Registration: 8 AM – 9 AM</li><li>• Inauguration: 9 AM – 9.30 AM</li><li>• High Tea: 9:30 AM – 10 AM</li><li>• Session: 10 AM – 1.30 PM</li><li>• Lunch: 1.30 PM – 2.30 PM</li><li>• Session: 2.30 PM – 3.45 PM</li><li>• Tea Break: 3.45 PM – 4 PM</li><li>• Session: 4 PM – 6 PM</li></ul>	<b>Wednesday, June 19</b>	<ul style="list-style-type: none"><li>• Session: 9 AM – 11.30 AM</li><li>• Tea: 11.30 AM – 12 AM</li><li>• Session: 12 PM – 1 PM</li><li>• Lunch: 1 PM – 2 PM</li><li>• Session: 2 PM – 4.30 PM</li><li>• Tea Break: 4.30 PM – 5 PM</li><li>• Session: 5 PM – 6 PM</li></ul>
<b>Tuesday, June 18</b>	<ul style="list-style-type: none"><li>• Session: 9 AM – 11.30 AM</li><li>• Tea: 11.30 AM – 12 AM</li><li>• Session: 12 PM – 1 PM</li><li>• Lunch: 1 PM – 2 PM</li><li>• Session: 2 PM – 4.30 PM</li><li>• Tea Break: 4.30 PM – 5 PM</li><li>• Session: 5 PM – 6 PM</li></ul>	<b>Thursday, June 20</b>	<ul style="list-style-type: none"><li>• Session: 9 AM – 11.30 AM</li><li>• Tea: 11.30 AM – 12 AM</li><li>• Session: 12 PM – 1 PM</li><li>• Lunch: 1 PM – 2 PM</li><li>• Session: 2 PM – 4.30 PM</li><li>• Tea Break: 4.30 PM – 5 PM</li><li>• Session: 5 PM – 6 PM</li></ul>
		<b>Friday, June 21</b>	<ul style="list-style-type: none"><li>• Session: 9 AM – 11.30 AM</li><li>• Tea: 11.30 AM – 12 AM</li><li>• Session: 12 PM – 1 PM</li><li>• Lunch: 1 PM – 2 PM</li><li>• Session: 2 PM – 5 PM</li><li>• Valedictory: 5 PM – 5.30 PM</li><li>• High Tea: 5.30 PM – 6 PM</li></ul>

**NOTE:** Candidates are encouraged to bring their own laptops for their personal use and work/practice

# Organizing Committee

## Convenors

### **Professor Kishor Goswami**

*Head, Department of HSS, IIT Kharagpur*

### **Professor Hiranya K. Nath**

*Department of Economics & International Business  
College of Business Administration  
Sam Houston State University, Huntsville, USA*

## Organizing Secretaries

**Dr. Prantik Bagchi**, *Assistant Professor, Department of HSS, IIT Kharagpur*

**Dr. Krittika Banerjee**, *Assistant Professor, Department of HSS, IIT Kharagpur*

## Students Secretaries

*Department of Humanities and Social Sciences  
IIT Kharagpur*

**Ms. Dwiti Baruah Thapa**

**Ms. Jigyasa Sandilya**

**Ms. Plawana Borthakur**

**Mr. Partha Pratim Saikia**

**Mr. Ubaid Mushtaq**

**Mr. Palkit Lohia**

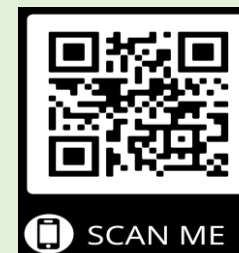
## Contact Persons

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