



# **ONLINE** Faculty Development Program **FOUNDATIONS OF APPLIED ECONOMETRICS**

Organised By  
BML Munjal University

In association with  
Birmingham City University, UK



The Indian Econometric Society

14th December 2023 – 20th December 2023

# About the Program

Applied Econometrics is a discipline of Economics and Mathematics concerned with the use of statistics to describe economic processes. Applied Econometrics evaluates theories, develops econometric models, and analyses history, and forecasts using theoretical econometrics and data. This course will blend analytical and computer-based (data) content to provide participants with hands-on experience with a wide range of econometric issues. The sessions will be interactive along with the application of STATA.

# Program Structure

## Module I: Statistical Foundations of Econometrics

## Module II: Fundamentals of Econometrics

- Basics of Linear Regression
- Functional forms of regression models & its applications
- Qualitative explanatory variables regression models

## Module III: Regression Diagnostics

- Outliers, Multicollinearity, Heteroscedasticity, Autocorrelation, Model specification errors.

## Module IV: Topics on Cross-section Data

- Logit and Probit models,
- Multinomial regression models
- Ordinal regression models
- Censored Regression Models
- Truncated Regression Models

# Learning Objectives

At the end of this program participants will be able to:

- Conduct independent econometric and statistical analysis of data in an applied research setting.
- Use econometric software for data management and statistical analysis.
- Demonstrate their understanding of applied econometric analysis models/ methods with respect to the choice of models, estimation method, and interpretation of results.

# Pedagogy

The topics will be covered by lecture sessions along with hands-on practical training using databases and computer software STATA. The datasets will be provided to the participants to practice the applications of the techniques learned under different modules to real-world problems.

## Intended Audience:

Academicians, analysts, and doctoral candidates in economics, humanities, management, and other social science fields who plan to do research using econometric models.

## Prerequisites:

Basic knowledge of STATA

# Timing

- Time: 2 pm to 7 pm every day
- Mode: Online

# Program Fee

Categories	Registration Fee (INR)
Ph.D Scholars	1,200.00 +18% GST = 1,416.00
Faculty(Academics)/PDFs/ Independent Researchers	2,000.00+18% GST = 2,360.00
Industry Person	3,500.00+18% GST = 4,130.00

# Registration Link

[https://maitri.bmu.edu.in/anon\\_evForm.htm?ev=16](https://maitri.bmu.edu.in/anon_evForm.htm?ev=16)

## Last Date of Registration

8th December 2023

# Contact Details

### Convenor:

Dr. Anusree Paul  
Associate Professor in Economics,  
E: anusree.paul@bmu.edu.in

### Co-Convenor:

Dr. Sucheta Sardar  
Assistant Professor in Economics,  
E: sucheta.sardar@bmu.edu.in

### Organising Team:

Finonomics Club, BMU

### Address:

BML Munjal University,  
67th Milestone, NH 48,  
Kapriwas, Haryana-122413

# Keynote Speakers



## **Prof. (Dr.) Pami Dua**

Dr. Pami Dua is Former Director and Senior Professor of Economics at the Delhi School of Economics. She was a member of the first Monetary Policy Committee of the Reserve Bank of India from 2016 to 2020. She is currently an Honorary Distinguished Fellow (Non-resident) of the Indira Gandhi Institute of Development Research (IGIDR), Mumbai, and a member of the Governing Council of the Centre for Advanced Financial Research and Learning (CAFRAL). She is also a member of the Governing Council of the Madras Institute of Development Studies (MIDS). She is affiliated with the Economic Cycle Research Institute in New York.

She earlier served as the President of the Indian Econometric Society and as Editor of the Indian Economic Review, a reputed journal of the Delhi School of Economics, for almost two decades. She has published widely in reputed international journals as well as books and book chapters in her fields of study viz. time series econometrics, forecasting, macroeconomics, monetary policy and business cycle analysis. She earlier taught at the University of Connecticut, USA and Wayne State University, Michigan, USA and has also been affiliated with Yale University as well as Columbia University. She obtained her Masters (with distinction) and Doctorate in Economics from London School of Economics.



## **Prof. (Dr.) Vikas Kumar**

Prof. Vikas Kumar is an Associate Dean for Research Innovation and Enterprise at the Faculty of Business, Law and Social Sciences, Birmingham City University, UK. He is also a Professor of Operations and Supply Chain Management. Prof Kumar has over a decade of teaching and research experience. Prof Kumar holds the title of Chartered Management Business Educator (CMBE) and is fellow of HEA. Prior to joining BCU, he was Director of Research and Scholarship at Bristol Business School, University of the West of England. Prof Kumar has also worked in India, Ireland and Hong Kong. He has published more than 250 papers in leading journals and international conferences of high repute. Prof Kumar serves on the editorial board of several international journals, including the Journal of Business Logistics, the International Journal of Physical Distribution and Logistics Management, and the International Journal of Mathematical, Engineering and Management.

He has worked on several international collaborative projects with researchers from UK universities and from Brazil, Vietnam, Thailand, Indonesia, India, Mexico, Taiwan, Jordan, Columbia, Peru, Costa Rica, and Turkey.



# The Technical Sessions will be Delivered by Experts from

- Jawaharlal Nehru University
- IISER Kolkata
- Birmingham City University
- The Indian Econometric Society
- Delhi University
- BML Munjal University

## About Us

### **Birmingham City University**

Birmingham City University was established in 1992 but has roots dating back to the mid-19th century with the founding of its predecessor institutions. It has since evolved and expanded to become a modern and innovative university. The university is located in the heart of Birmingham, which is the second-largest city in the United Kingdom. It has multiple campuses across the city, including the City Centre Campus, the Eastside Campus, and the Royal Birmingham Conservatoire. It offers a wide range of undergraduate, postgraduate, and research programs across various disciplines. These include arts, business, health, engineering, social sciences, and many others. The university is known for its strong emphasis on employability and real-world experience for students.

### **The Indian Econometrics Society**

The Indian Econometric Society (TIES) was established to promote the study and application of econometrics, which is a branch of economics that deals with the quantitative analysis of economic data and the development of statistical and mathematical models to understand and forecast economic phenomena. TIES aims to advance research, education, and practice in econometrics within India. TIES fosters a community of econometricians and economists in India, offering networking opportunities for individuals interested in econometrics. This can be beneficial for researchers seeking collaborations, academics looking to stay updated on the latest developments, and students interested in pursuing careers in econometrics.

### **BML Munjal University**

BML Munjal University (BMU) is a private university located in Gurugram, Haryana, India. It was established in 2014 and is named after Shri Brij Mohan Lall Munjal, one of the co-founders of the Hero Group, a well-known Indian conglomerate. It was founded with the vision of providing high-quality education and producing well-rounded, industry-ready graduates. It aims to bridge the gap between academia and industry by offering programs designed to meet the demands of the modern workforce. BMU offers a range of undergraduate, postgraduate, and doctoral programs in various disciplines. These programs span fields such as engineering, management, law, economics, liberal arts, and commerce. The university also emphasizes interdisciplinary learning and innovation. The university is organized into different schools and faculties, each specializing in specific areas of study. BMU also offers opportunities for international exposure through collaborations with universities and institutions worldwide. Students have access to global perspectives and experiences, enriching their education.

# Patrons



**Prof. (Dr.) Shyam Menon**  
Vice Chancellor

Prof. Shyam Menon, Vice Chancellor of BML Munjal University is a renowned practitioner in higher education institutional development. He spent most of his academic career as a Professor at the University of Delhi's Central Institute of Education. He also held key roles at the University of Delhi, including Dean of the Faculty of Education and Proctor. In addition, he served as Vice Chancellor of Dr. BR Ambedkar University Delhi from 2008 to 2018. His career includes positions as Director of the School of Education at Indira Gandhi National Open University, a Professor at the Central Institute of Educational Technology at NCERT, and a Fulbright Post-Doctoral Fellow at the University of Wisconsin, Madison. He edited the journal Perspectives in Education and served on advisory boards for esteemed international journals like Comparative Education and Asia Pacific Journal of Education. Prof. Menon was part of the Task Force on Access and Equity in Higher Education for the International Association of Universities and UNESCO. Currently, he also chairs the Commission for Reforms in Higher Education established by the Government of Kerala.

Dr. Jaskiran Arora is the Dean of the Centre for Teaching Learning and Development. With over 20 years of experience in both academia and corporate leadership, she conducts training programs in areas like Finance for Non-Finance, Spreadsheet Modelling for Business Decision Making, Risk Analysis, Personal Finance, and Mutual Fund Performance Measurement. She holds impressive academic qualifications, including a PhD, MBA in Finance, B. Com, and CFA (Level-I) from the USA. Dr. Arora also possesses a Postgraduate Certification in Academic Practice from Lancaster University, UK. Her scholarly contributions are extensive, with numerous articles published in national and international journals focusing on Accounting, Finance, and Education. Dr. Arora's excellence in teaching and mentoring has earned her multiple awards and accolades. She is a seasoned scholar and practitioner with significant experience in both the academic and corporate realms.



**Prof. (Dr.) Jaskiran Arora**  
Dean, CTLD



**Prof. (Dr.) Pratik Modi**  
Dean, School of  
Management

Prof. Pratik Modi, Dean, School of Management of BML Munjal University, has 17+ years of experience spanning industry, academia, research, and consulting. Previously, he served as Dean and Marketing Professor at the Institute of Rural Management Anand (IRMA). He also worked as a Research and Visiting Fellow at the University of Portsmouth, UK. Prof. Modi has a remarkable track record securing substantial research grants from organizations like IDRC-TTI, UNICEF, and the University of Portsmouth. He's a prolific researcher with publications in top international journals. His consulting work includes collaborations with state and central governments, multilateral agencies, and major multinational corporations. Prof. Modi's career features leadership roles in institutional administration, driving strategic initiatives, and policy formulation, resulting in significant institutional growth. He's taught various courses at prestigious management institutions in India and Europe, with a primary research focus on strategic orientations and interests in sustainable consumption, rural-social marketing, and nonprofit marketing.

## Convenor



**Prof. (Dr.) Anusree Paul**

Dr. Anusree is an Associate Professor in Economics at BML Munjal University in School of Management. She has more than fifteen years of teaching and research experience in the fields of Industrial Economics and International Trade. She has done her Ph.D. in Economics from the University of Calcutta and post-doctoral studies from the Centre for International Trade and Development, Jawaharlal Nehru University. Her research areas are Applied Econometrics, International Economics, and Industrial Economics. She is proficient in statistical analysis and software like Stata, EViews, Gretl, Matlab and R.

## Co-Convenor



**Prof. (Dr.) Sucheta Sardar**

Dr. Sucheta is an Assistant Professor of Economics. She has around eight years of teaching and research experience. She has completed her education from University of Calcutta and Jawaharlal Nehru University. She has published in several reputed journals and has edited books. Her teaching interests lie in the areas of Macroeconomics, Econometrics and her research interest lies in Macroeconomics, Gender studies, Labour, Industrial Economics and Business groups.