Basic Mathematics and Statistics for Social Science Research

with the Application of R

Course Objectives

- To develop proficiency in mathematical and statistical tools relevant to social science research
- To apply econometric techniques to analyze real-world data
- To assess quantitative research methodologies and findings critically

This Course is Designed For

Professionals, researchers, consultants, professionals or students, and anyone seeking to learn basic mathematics and statistical analytical tools for decision-making, research, or policy analysis

Course Content

- Overview of Research Design; Problem Formulation and Data Collection Methods
- Basic Mathematics; Equations
- Calculus (Limits and Derivatives); Application of Differentiation
- Linear Algebra
- Basic Statistics; Graphical Representation
- Estimation & Sampling
- Probability Concepts; Probability Distribution
- Introduction to R Programming; Hypothesis Testing
- Econometric Modelling (Cross-Sectional Data and Time Series Analysis)
- Research Report Writing

Course Details

Training Duration: **January 11 to February 23. 2025**
(7 weeks long course)
Number of Sessions: 19
Class Time: **6.00 PM - 7:30 PM**
(Saturday, Sunday and Wednesday)
Class Duration: **1 hour 30 minutes**
Course Delivery Mode: **Online**

Course Fee
TK 6500

Registration Link
https://forms.gle/rBYHBPUdvzPJeh9R9

Registration Deadline
4th January, 2025

For More Information

- **01788822455**
- **01712730621**
- **01675247069**
  (10:00am - 03:00pm)

Bangladesh Institute of Governance and Management
E-33, Sher-E-Bangla Nagar, Agargaon
Administrative Zone, Dhaka-1207
www.bigm.edu.bd