Institute of Rural Management Anand

Basic Econometrics and Cross Section Data Analytics

January 8-10, 2018

Programme Co-ordinator: Prof. Indranil De

About the Programme

Econometric analysis is an important quantitative technique for evidence based decision making. The analytical technique is useful for socio-economic analysis and prediction. The training programme introduces participants to the basic theory, diagnostics and applications of econometric methods in industry and development sector. The emphasis of the programme is on intuitive understanding and practical applications. It specifically demonstrates potential applications of econometric techniques with regard to estimation of demand curve and elasticity, calculation of long term growth and structural breaks, explanatory models used to find determinants of myriad socio-economic outcomes such as per capita income and agricultural output, impact evaluation of development programmes or government interventions and predictive analytics that are used for credit scoring and direct marketing. Due to the short duration of the programme, it primarily focuses on cross section data analysis. The participants would benefit to a great extent should they bring own datasets which may be used for econometric analysis in the practice sessions.

Objectives

- Introduce basic theory and concepts of econometrics
- Hands-on training to perform econometric analysis
- Impart skills to handle econometric software
- Evidence based decision-making

Benefits of the Programme

It is expected that participants would be able to undertake econometric analysis on their own after completion of the programme. They would be able to develop econometric models using cross section data including aggregate and unit (individual or household) data. The training would be very much helpful to analyze survey data. The participants would be also able to predict the occurrence of events such as school dropout, participation in programme, loan default, etc. They would also be able to understand the basics of impact evaluation using statistical and econometric techniques.

Contents

Day-1
♦ Basic Econometric Analysis and Hypothesis Testing
♦ OLS Regression Models
♦ Introduction to Statistical Econometric Software
♦ Functional Forms

Day-2
♦ Dummy Variables
♦ Multicollinearity – Heteroscedasticity – Autocorrelation
♦ Practice Session

Day-3
♦ Logistic Regression
♦ Discussion on Application of Econometrics in Marketing Mix, Credit Scoring and Direct Marketing
♦ Impact Evaluation
♦ Practice Session

Pedagogy

Interactive classroom lectures, hands-on training to deal with software while developing econometric models and practice sessions

Who Should Attend

Researchers, analysts and decision-makers who are comfortable with basic statistical techniques

Programme Fee

The programme fee is INR 26,550/- per person. The fee is inclusive of 18% GST (current rate), boarding & lodging (single AC room), tuition fee, reading material, stationery, etc. The fee should be paid in advance through NEFT/RTGS.

Refund Policy

In the event of cancellation on part of the organization/participant, the cancellation charge will be 10% of the fees paid. If a programme is cancelled by IRMA due to any unforeseeable reasons, the participants will be informed via e-mail, phone, or fax. Full fees will be refunded to the payee. IRMA will not be liable for other expenses incurred by the organization or the participant.

Deadline for Confirmation of Participation: December 25, 2017

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