Structural Equation Modeling

Structural equation modeling (SEM) is a series of statistical methods that allow complex relationships between one or more independent variables and one or more dependent variables. SEM is commonly used in the social sciences because of its ability to impute relationships between unobserved constructs (latent variables) from observable variables. A key feature of structural equation models is the ability to investigate the networks of connections among system components. The proposed programme aims at enhancing faculty and research scholars' competencies for adoption of SEM for data analysis.

Objectives

The specific objectives of the programme include:

- To help participants in understanding multivariate techniques such as multiple regression analysis and factor analysis.
- To introduce the basic concepts of SEM and designing a model visually with a path diagram.
- To illustrate the basic applications of SEM using AMOS software.

Tools to be used

Participants will get hands on experience on various statistical tools using SPSS AMOS.

Content covered

The programme will provide a comprehensive coverage of the major issues related to multivariate data. A few major themes are highlighted below.

a. Multiple Regression Analysis,

b. Factor Analysis and

c. Structural Equation Modeling (SEM)

Pedagogy/Learning Methodology

Lectures/Presentations, Case let study, Hands-on software demonstration.

Learning Outcome

By the end of the programme, the participants should be able to fit structural equation models using AMOS. The participants will also gain an appreciation for the types of research questions well-suited to SEM and an overview of the assumptions underlying SEM methods.

Participants

This programme is designed to cater to the needs of academicians, research supervisors and scholars, and corporate executives who are often required to analyse data for research reports, papers and theses.

Registration Fee : This workshop is designed for 2 days.

a) For faculty members: Rs. 3000.00

b) For full time research scholars : Rs. 2500.00

The registration fee includes course material, lunch, refreshments on workshop days.

Date and Venue

15-16 Sept, 2017, at Vignana Jyothi Institute of Management, Bachupally Hyderabad

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Contact

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