

Faculty Development Program on Multivariate Data Analysis

Dates: September 27-29,2021 (Monday/Tuesday/Wednesday)
Timings: 10AM - 12 PM, 12.30 PM - 2.30 PM (Virtual Mode) on each day

INTRODUCTION

Multivariate statistics involves observation and analysis of more than one statistical outcome variable at a time. In design and analysis, the technique is used to perform studies across multiple dimensions while taking into account the effects of all variables on the responses of interest. Researchers use multivariate procedures when they are interested in studying more than one outcome simultaneously (also known as the dependent or phenomenon of interest), more than one impacting variable (also known as an independent or predictor), or both. This type of analysis is desirable because researchers often hypothesize that a given outcome of interest is influenced by more than one variable. There are many statistical techniques for conducting multivariate analysis, and the most appropriate technique for a given study varies with the type of study and the key research questions.

OBJECTIVES

The purpose of this FDP is to provide faculty and research scholars with the tools to gain a better understanding of the available techniques for data analysis with a focus on multivariate techniques. This program also aims to provide hands-on training on SPSS, AMOS software for analyzing the data and interpreting outcomes of various analyses.

CONTENTS

- Multiple regression
- Hierarchical regression
- Family of ANOVA & MANOVA
- Logistic regression
- Discriminant Analysis
- Factor Analysis
- Introduction to SEM using AMOS
- Measurement models and CFA
- Path Analysis with Latent Variables
- Testing Mediation and Indirect Effects

METHODOLOGY

Typically, participants will get 75% input in lab session and 25% input through class discussion.

WHO SHOULD ATTEND

All those who deal with data analysis will benefit most from this program and so, this program will be useful to:

- Academicians, Researchers
- Business Analysts / Managers at various decision making levels
- Executives handling Business Analytics &/or Research

- Management Students & Research Scholars

Professional Fee of the Program

	Fees for Online Programme
Faculty Members	INR 1770
Students/Research Scholars	INR 1180
Corporate Executives	INR 2360

Gst@18% included in fee amount, as applicable.

Program Dates and Timing

Dates: September 27-29,2021 (Monday/Tuesday/Wednesday)

Timings: 10 AM - 12 PM, 12.30 PM - 2.30 PM (Virtual Mode) on each day

Program Duration: 12 Hrs. (across the 3 days)

PROGRAM DIRECTOR:

Prof. Sumeet Kaur, Associate Professor, Operations Management and Quantitative Techniques, FORE School of Management, New Delhi, India. Sumeet Kaur has over 16 years' research and teaching experience. She has conducted Management Development Programs on topics like applications of qualitative techniques in competence mapping, simulation techniques and assignment problems, operations excellence, supply chain management, advanced excel techniques for managers of public and private sector. She has organized workshops on Decision Sciences and its management applications like business research methods. She has also conducted Faculty Development Program on topics like SPSS and Research Methods, Multivariate Data Analysis, Machine Learning and Analytics using R. She has also been involved in case development with Maruti True Value, Blind People Association, Indraprastha Apollo Hospitals which are published in European Case Clearing House (ECCH). She has presented papers in several international and national conferences, and has publications in the form of research papers, and book chapters, in International peer-reviewed journals and books. She has research and consulting interests in Reliability and Life testing, Business Forecasting, Managerial Decision Making, Quantitative Techniques in Advanced Marketing Research, Multistage Sampling Methods, etc. She teaches courses on Business Statistics, Quantitative Techniques and Advanced Statistical Methods. She can be reached at <skaur@fsm.ac.in>.

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