



**VIT**<sup>®</sup>  
Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)  
**Business School**



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Faculty Development Programme on  
**Structural Equation  
Modeling using AMOS**

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**Date: 10<sup>th</sup> – 12<sup>th</sup> November, 2022**

**Duration: 30 hours**

**Venue: Mahatma Gandhi Block, VIT, Vellore**

**FDP Coordinators:**

- **Dr. Anil Verma, Assistant Professor, VITBS, Vellore**
- **Dr. Dibyajyoti Ghosh, Assistant Professor, VITBS, Vellore**

## About VIT **Business School**

VIT Business School (VITBS), established in September 1994, is in its Silver Jubilee plus years. VITBS has campuses at Vellore and Chennai. VIT Business School endeavors to develop thought-leaders, who are innovative, socially sensitive, ethically strong and globally competent. VITBS offers under graduate (BBA), post graduate (MBA) and Doctoral (Ph. D) programmes in Business.

VITBS is accredited by Association to Advance Collegiate Schools of Business (AACSB), Accreditation Council for Business Schools and Programmes (ACBSP), USA for a period of 10 years, ACCA (course options); these international accreditations endorse the superiority of the deliverables. Some of the finest skills imparted include critical thinking, data crunching and pattern understanding, crisis management, intelligent data driven decisions, cross-culture management and many more iterative and adoptive processes to suit the current corporate requirements. The academic thrust areas include Business Analytics, Finance, Marketing, Human Resources, Operations and Systems. Fully Flexible Credit systems (FFCS) allows complete flexibility for a student to select the course, slot and faculty member. The VITBS edge is its ability to bring the industry intelligence to the classrooms and translate the future industrial requirements into curricular activities.

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Dr. A. Vasumathi  
Associate Dean and Professor  
VITBS, Vellore



Dr. Subhendu Kumar Pradhan  
Assistant Professor  
VITBS, Vellore



Dr. Anil Verma  
Assistant Professor  
VITBS, Vellore



Dr. Dibyajyoti Ghosh  
Assistant Professor  
VITBS, Vellore

## About the FDP

The aim of the present FDP is to hone and equip the participants with model building and hypothesis testing concepts using the structural equation modelling (SEM) technique in AMOS. SEM was introduced in 1970s and combines psychometrics with econometrics. This technique allows to include latent variables and test the relationship between multiple dependent and independent variables. It is a combination of both the techniques: Factor analysis and regression method. Further, it is a must-required testing concept in Social Science and Humanities domain.

## Objectives

- To enhance the comprehensive understanding of basic concepts and techniques of Structural equation modelling (SEM).
- To deliver hands-on training on using AMOS software.

## Pedagogy

- The FDP includes lectures, case analysis, demonstration and hands-on experience with the AMOS software.

## Prerequisites

- Participants are requested to bring their own laptops installed with full/trial version of the AMOS software.

# FDP Contents

This FDP plans to cover the following areas:

- Introduction to SEM
- Difference between co-variance based and variance-based SEM
- Addressing common method bias
- Formative vs reflective model, sample size determination
- Exploratory Factor Analysis (EFA), Confirmatory Factor Analysis (CFA), Measurement Model Assessment, Discussing Fit Indices
- Reliability and Validity Testing
- Structural Model Assessment, Path Analysis (Direct Effect and Indirect Effect), Bootstrapping Technique
- Improving model fit, getting best model.
- Writing and discussion of methods and results in articles and Thesis.
- Understanding Mediation, Moderation and Multigroup Analysis
- Application of various basic and advanced SEM techniques with the help of case studies.

## Important Dates

Last date for submission of Application: 08/11/2022

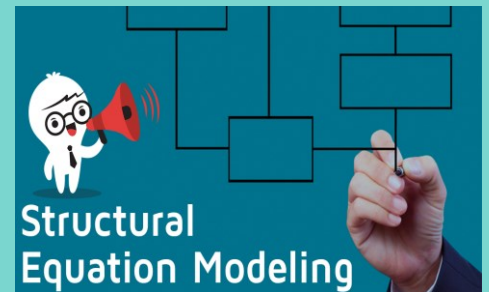
Duration of the Programme: 10/11/ 2022 to 12/11/2022

**Registration Fees: ₹ 2500 (Excluding GST)**

\* Registration Fees include lunch, refreshments

**Registration Link:**

**<https://events.vit.ac.in>**



**Contact Details:**

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