ORIC
Professional Development

COMSATS

STRUCTURAL EQUATION MODELING USING
AMOS

May 11, 2017

Structural Equation Modeling (SEM) has become increasingly popular for analyzing data in the social sciences. The purpose of this one day course is to guide students through the fundamentals of using AMOS for the typical data analysis process. The course designed for non-experts and its emphasis is on learning the basics of SEM, drawing diagrams in AMOS Graphics, performing regression and confirmatory factor analysis in AMOS, mediation and moderation analysis, evaluating model fit, and ways to improve model fit.

Who Should Participate?

- Graduate students
- Academic researchers
- Faculty Members
- Social Scientists

Resource Persons:

1. **Dr. Omer Farooq Malik** has a doctoral degree in Human Resource Management from Malaysia. He has over 10 years of teaching and research experience. He has quantitative interests in both covariance-based and variance-based Structural Equation Modeling (SEM).
2. **Mr. Asif Shehzad** holds a Master of Science degree in Human Resource Management He has 12 years of teaching and research experience and is interested in qualitative, quantitative, and mixed methods research designs.

Topics to be covered:

- What is Structural Equation Modeling (SEM)?
- Introduction to Confirmatory Factor Analysis (CFA)
- Specification and Interpretation of CFA Models
- Model Revision and Comparison
- Second-Order CFA Models
- Mediation Effects in SEM
- Interaction Effects in SEM
- Reporting SEM Research

Technical Program:

Session - 1 (Duration: 90 minutes)

- Getting Ready to Learn about SEM
- Characteristics of SEM
- Fundamental Concepts
- Data Preparation
- Drawing Diagrams in AMOS Graphics

Session - 2 (Duration: 120 minutes)

- Specification Concepts
- CFA Model Identification
- CFA Model Evaluation
- Model Revision and Comparison

Session - 3 (Duration: 90 minutes)

- Higher-order Factor Analysis
- Mediation Effects in SEM

Session - 4 (Duration: 90 minutes)

- Interaction Effects of Latent Variables
- Reporting SEM Research

Important Note:

Laptops with preinstalled SPSS and AMOS are an essential prerequisite for participants

Participants can now register online at

www.oric-pd.comsats.edu.pk

FOR FURTHER DETAILS AND REGISTRATION:
ORIC-Professional Development
1st Floor, SSBC Building, COMSATS Institute of Information Technology,
Park Road, Islamabad-45550
Phone: +92-51-9049-(6120/6027/6020/6028/6121)
Fax: +92-51-90496028, Cell: +92-340-0505570
Email: oric-pd@comsats.edu.pk

Training Fee
Rs. 6,000
per Participant
(50% Discount for Students)
Registration Deadline
5th May 2017