



# JIIT

**JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY  
NOIDA**



**Two days Workshop on  
“Structural Equation Modeling”  
18<sup>th</sup> and 19<sup>th</sup> January 2014**

**Organized by:**

**Department of Humanities and Social Sciences  
JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY  
A-10, Sector-62 Noida-201 307 Uttar Pradesh, India**

# Two days Workshop on "Structural Equation Modeling" (18<sup>th</sup> and 19<sup>th</sup> January 2014)

## **JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY**

JiIT, a leading Engineering institute was established in the year 2001 with the vision of becoming a center of excellence in the field of IT & related emerging areas of education, training and research comparable to the best in the world for producing professionals who shall be leaders in innovation, entrepreneurship, creativity and management.

The Institute offers Doctoral, Post-graduate as well as Undergraduate programs (B.Tech.) of study in the disciplines of Computer Science Engineering, Information Technology, Electronics & Communication Engineering and Biotechnology. The University aims to develop engineers with capability to design and implement computer based systems, tools and equipment.

## **DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES**

The Department of Humanities and Social Sciences is a source of change-facilitators who serve to complement the existing and emerging educational programs of our institute by imparting professional and behavioral competencies and, thereby, transforming our students to become the New-age, Innovating, Competitive and Enterprising leaders in their chosen professions of service and technology.

This department serves as a 'Center of Excellence' dedicated to the dissemination of professional and behavioral knowledge pertaining to communication skills, interpersonal and managerial skills. The department recognizes industry partnering in shaping humanities and management education as a focus area.

## **ABOUT THE WORKSHOP**

In today's world it is most difficult to avoid the term 'research'. It is because of the continuous efforts of the researcher that we are experiencing a giant leap in this century. The research is initiated to have some practical consequence. This means it needs to contain the potential for *thinking* and taking some form of *actions*, by considering the practical consequences of the findings, which ideally should satisfy the knowledge-gap/s in future businesses, industries, infrastructure, environment and human sciences and arts in addition to quest for finding new knowledge.

This program is formulated by department of Humanities and Social Sciences, Jaypee Institute of Information Technology for research scholars and young teachers who are pursuing their research activities. The program will help the participants acquaint themselves with the dynamic trends of research methodology which may shape their research work in the right direction.

The participants would explore and analyze their own research practices systematically and put these techniques effectively in their various research endeavours. Participants will find the workshop challenging, thought provoking and rewarding. Participants will enhance their own knowledge as well as joining a network of academics involved in social science and management research.

**VENUE** Jaypee Institute of Information Technology, A-10, Sector-62, Noida

**DATES** 18<sup>th</sup> and 19<sup>th</sup> January 2014

### **OBJECTIVES**

This workshop will provide hands on experience on Structural equation modeling, which is one of the most useful and popular technique for testing the measurement theory and the structural relations among variables. It is a combination of factor analysis and regression analysis specifying the observed variables and the unobserved/latent variables with their errors in measurement that are not observed in many multivariate analyses. It is a family of techniques that covers factor analysis, path analysis, regression models, and change analysis.

- To provide the state-of-the-art knowledge in SEM.
- To familiarize the participants with the usage of application-sofwares.
- To equip the teachers and researchers with the desired skills to handle complex research models using SEM.

### **TARGET AUDIENCE**

The Workshop is customized for teachers and research scholars from various technical and management institutes.

### **PEDAGOGY**

The pedagogy would include lecturer, discussion, demonstration, and hands-on-experience in computers. Those who have laptops, please carry them to practice.

### **REGISTRATION DETAILS**

- Registration fees-  
Rs 2000/- before 15<sup>th</sup> Dec 2013  
Rs 3000/- after 15<sup>th</sup> Dec 2013
- Payment may be made through Cash or Demand Draft drawn in favor of *Jaypee Institute of Information Technology* payable at Noida.
- Kindly fill the attached participation form and email latest by December 15, 2013 as a confirmation.
- Registration fee includes workshop kit, lunch and tea. However, it does not include accommodation and traveling cost.

### **CONTACT DETAILS:**

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Assistant Professor and Department Coordinator  
HSS deptt.  
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Assistant Professor  
HSS Deptt.  
Mobile: 9971788699

**Email ID:** [workshop.hss@jiit.ac.in](mailto:workshop.hss@jiit.ac.in)

Please mark a copy of your mail to [mukta.mani@jiit.ac.in](mailto:mukta.mani@jiit.ac.in) or [nidhi.sinha@jiit.ac.in](mailto:nidhi.sinha@jiit.ac.in)

## PROGRAM DETAILS

SESSION	TIME	TOPICS TO BE COVERED
<b>Day 1</b>	9.15 – 10.00 am	Inaugural session and group photograph
	10:00 – 10:15 am	Tea Break
	10.15 – 11.30 am	Theoretical Background of SEM, SEM vs. Multiple regression and Factor analysis. Handshake with AMOS
	11:30 - 1.00 pm	Defining a construct, Type of Constructs, Content analysis and Content Validity, Reflective and Formative measurement theory, Measurement Model and Structural Model, Difference between EFA and CFA, Identification Problem, Uni-dimensionality
	1:00 pm- 2:00 pm	Lunch Break
	2: 00 pm – 3:30pm	Construct analysis and Confirmatory Factor Analysis, Construct Validity, Convergent and Discriminant Validity.
	3.30pm – 3:45pm	Tea Break
	3:45 pm – 5:30 pm	Data Imputation, Calculation of Construct Scores and Path Analysis.
<b>Day 2</b>	9:15 am –10.30am	Finding and handling Common Bias Error.
	10:30 -10:45 am	Tea Break
	10:45 am -1.00 pm	Modifying the Structural Equation Modeling.
	1:00 pm -2:00 pm	Lunch Break
	2: 00pm – 3:30 pm	Outlier Testing and Extreme Value Analysis
	3:30 pm -3:45 pm	Tea Break
	3.45pm – 5:30pm	Mediation and moderation effects, Group Moderation, Interaction Moderation analysis.
	5:30 pm – 6:00 pm	Valedictory Session.

**JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY  
SECTOR-62, NOIDA**

**Phone Number- 0120-2594384, Website [www.jiit.ac.in](http://www.jiit.ac.in)**

**REGISTRATION FORM**

**TWO DAYS WORKSHOP ON “STRUCTURAL EQUATION MODELING”  
JANUARY 18-19, 2014**

Name of the participant(in capital letters): .....

Gender: .....

Designation: .....

Institution Affiliation:.....

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Correspondance Address:.....

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Phone/ Mobile Number:.....

Email:.....

Mode of Payment: Cash/Demand draft

Amount.....

Demand Draft details: Bank .....

D.D. No..... Dated: .....

Signature of the applicant:

Date :

Please send soft copy of filled registration form to email ID. [workshop.hss@jiit.ac.in](mailto:workshop.hss@jiit.ac.in) or hard copy to the following address:

Program Coordinator  
Department of Humanities and Social Sciences  
Jaypee Institute of Information Technology, A-10, Sector-62, Noida, (U.P.)  
Pin- 201307

Please mark a copy of your mail to [mukta.mani@jiit.ac.in](mailto:mukta.mani@jiit.ac.in) or [nidhi.sinha@jiit.ac.in](mailto:nidhi.sinha@jiit.ac.in)