



Faculty Development Program
On

“Data Analysis & Structural Equation Modeling (SEM) techniques in Behavioral Sciences”

6-10th May, 2019

“Process at a Glance”

Day: 01; Monday [6th May, 2019]

S.No.	Time	Topic
01.	9.30 A.M – 10.00 A.M	Registration & Networking Tea
02.	10.00 A.M – 10.30 A.M	Inaugural Ceremony & Introduction to FDP & Theme Sensitization (Venue: MDP Room)
03.	10.30 A.M – 01.00P.M	Session:1 Research Process, Foundation of Business Research, Setting objectives and objective based analysis, Discussion on how to formulate hypothesis, Data and its types in qualitative / quantitative study
04.	01.00 P.M – 1.30 P.M	Lunch Break
05.	1.30 P.M – 3.30 P.M	Session: 2 Introduction to Research and its basics, Use of SPSS as tool in research, Understanding of Variables & its types, Scales of measurement and Choosing Appropriate Scales, Data Cleaning, Coding & pre testing

06.	3.30 P.M – 3.45 P.M	Evening Tea
07	3.45 P.M – 5.00 P.M	Introductory Concept on validity and reliability Analysis, Problem of Outlier and their testing, Identifying duplicate cases / unusual cases

Day: 02; Tuesday [7th May, 2019]

S.No.	Time	Topic
01.	9.30 A.M – 10.30 A.M	Descriptive Statistics, Frequency distribution, cross tabulation, Measure of central tendency, Measures of dispersion, Skewness and Kurtosis, Test of Normality
02.	10.30 A.M – 10.45A.M	Tea-Break
03.	10.45 A.M – 01.00P.M	Session:1 Test Overview: Parametric and Non-Parametric test, and Introduction to hypothesis testing
04.	01.00 P.M – 1.30 P.M	Lunch Break
05.	1.30 P.M – 3.30 P.M	Session: 2 Z-test, T-test , one way ANOVA, Introduction to ANOVA family,

06.	3.30 P.M – 3.45 P.M	Evening Tea
07.	3.45 P.M – 5.00 P.M	Non-Parametric Test:

Day: 03; Wednesday [8th May, 2019]

S.No.	Time	Topic
01.	9.30 A.M – 10.30 A.M	Covariance & Correlation Analysis: Types and utility
02.	10.30 A.M – 10.45A.M	Tea-Break
03.	10.45 A.M – 01.00P.M	Session:1 Regression Analysis: Introduction & Assumptions
04.	01.00 P.M – 1.30 P.M	Lunch Break
05.	1.30 P.M – 3.30 P.M	Session: 2 Regression Analysis (Continued)
06.	3.30 P.M – 3.45 P.M	Evening Tea
07.	3.45 P.M – 5.00 P.M	Multiple Regression with categorical variables (Dummy variables)

Day: 04; Thursday [9th May, 2019]

S.No.	Time	Topic
01.	9.30 A.M – 11.00 A.M	Introduction to EFA (Exploratory Factor Analyses) & CFA, Discussion on EFA
02.	11.00 A.M – 11.15A.M	Tea-Break
03.	11.15 A.M – 01.00P.M	Session:1 Introduction to EFA (Exploratory Factor Analyses) & CFA, Discussion on EFA....(Continued)
04.	01.00 P.M – 1.30 P.M	Lunch Break
05.	1.30 P.M – 3.15 P.M	Session: 2 Discussion on CFA (Confirmatory Factor Analyses)
06.	3.15 P.M – 3.30 P.M	Evening Tea
07.	3.30 P.M – 5.00 P.M	Discussion on CFA (Confirmatory Factor Analyses).... Continued

Day: 05; Friday [10th May, 2019]

S.No.	Time	Topic
01.	9.30 A.M – 11.00 A.M	SEM: Constructs & Items, Introduction to AMOS Interface
02.	11.00 A.M – 11.15A.M	Tea-Break
03.	11.15 A.M – 01.00P.M	Session:1 Statistical Fitness Indices in SEM, Multivariate Assumptions in SEM & Path Analysis
04.	01.00 P.M – 1.30 P.M	Lunch Break
05.	1.30 P.M – 4.00 P.M	Session: 2 Mediation- Moderation Effects in Structural Models, Types of Moderation Effects, Bootstrapping Method
06.	4.030 P.M – 5.00 P.M	Valedictory Session (Venue: MDP Room)
07.	5.05 P.M – 5.15 P.M	High-Tea