



PRIMAX COMMERCE AND MANAGEMENT ACADEMY



Teaching for Creativity....

A Complete "RESEARCH METHODOLOGY AND DATA ANALYSIS Using

" SPSS - 21 & AMOS & LaTeX"

Training Programme For Faculties And Research Scholar

Hand on Work, Study Materials

WEEK END CLASS :

(From 01-01-2019 to 03-02-2019)

Saturday : 3.00 p.m. to 6.00 p.m.

Sunday : 11.00 a.m. to 5.00 p.m.

Last date for Registration : **25-12-2018**

Training Fee **₹. 8,000**

Contact:

Prof. T. Rajeswari
Course Director

PRIMAX FOUNDATION

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Venue :
Primax Auditorium
Nagadevanahalli
Bengaluru

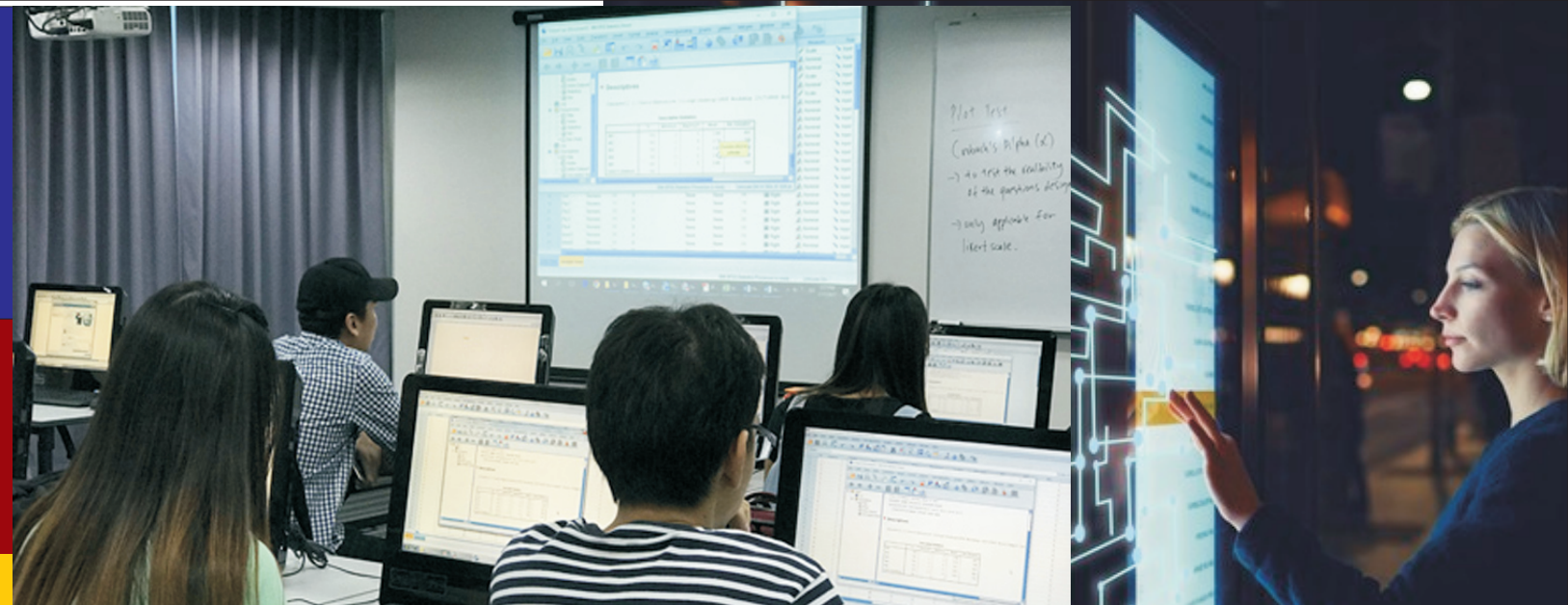
Payment through NEFT /RTGS

Primax Educational Trust

Account No. : **038836000000911**
(Current Account)

Bank Name : **Lakshmi Vilas Bank**
Place : Kengeri Satellite Town,
Bengaluru-60

IFSC Code No. : **LAVB0000388**



TOPICS TO BE COVERED

Introduction to research, Research Process, Identification of Problem, Identification of variables and Construction of questionnaire, Types of Research, Basic Statistics, Need for hypothesis in research

Population & Sampling designs, Sample size determination.

- Parameter and Statistic
- Organizing data
- Sampling Techniques
- Determine sample size
- Stages in Data Analysis
- Procedure for Testing of Hypothesis
- Concept of P value
- Parametric and Non-parametric test
- Interpretation

Steps in analyzing data with SPSS

- What is SPSS
- Enter your data into a data file
- Importing, Data entry in SPSS
- Provide labels for input file & Data Definition
- Handling missing data, outliers, in appropriate codes etc
- Transform the data into suitable form
- Prepare Descriptive Statistics
- Overview of different levels of measurement scales
- Prepare graph the data
- Reliability Analysis & Pilot study and reliability checking using Cronbach Alpha.
- Review of Literature and Research Gap identification using Nvivo

Article & Research Writing using LaTeX

- Introduction to LaTeX
- Basic document preparation
- Advanced document preparation
- Tables and Graphics
- Typesetting of Mathematical equations
- Preparation of thesis and research articles
- Automatic generation of bibliographies and indexes.

FEE INCLUDE
Programme Kit, Certificate,
Demo Statistical Software and Refreshment

SPSS Data

Define Variable Property, Copy Data property, New Custom Attribute, Define Dates, Define Multiple response set, Validation, Identify duplicate Cases, Identify unusual cases, Sort Case, Sort variables, Transpose, Merge File, Copy Data set, Split file, Select Case

SPSS Transform

Compute variable, Count value, recording into same variable, recording into different variables, Automatic recode, Visual & Optimal Binning, Rank Cases, Date & Time wizard, Create Time Series, Replace Missing Values

SPSS Analysis

- Data entry, data manipulation and data cleaning.
- Descriptive & Frequency statistics, Chi-square test, Correspondence Analysis.
- Assumptions checking: Linearity, homogeneity, multi-collinearity and normality.
- One Sample t-Test, Independent Sample t-Test, Paired t-Test, One-way ANOVA.
- Factorial ANOVA, ANCOVA, MANOVA, MANCOVA.
- Correlation: Pearson correlation and Partial correlation,
- Simple Regression, Multiple Regression, Step-wise Regression.
- Binary Logistic Regression, Multinomial Regression, Log Linear Regression and Canonical correlation.
- Factor Analysis, Cluster Analysis, Discriminant Analysis, Multidimensional Scaling (Mapping Tools), Hierarchical Clustering, K Means Clustering.
- Non-Parametric tests (Test for Normality, Mann Whitney U test, Krushkal Wallis test, Wilcoxon test, Friedman Test, Run Test etc)
- Time series

Structural Equation Model (SEM) using AMOS

- Model Fit Summary
- Goodness of Fit Index (GFI)
- Adjusted Goodness of Fit Index (AGFI)
- Normated Fit Index (NFI)
- Comparative Fit Index (CFI)
- RMR
- RMSEA

Confirmatory Factor Analysis (CFA) using AMOS based on One Factor

- Modification Indices
- Model Fit Summary
- Average Variance Extracted (AVE)
- Construct Reliability (CR)
- Convergent Validity
- Discriminant Validity
- Linear Model
- Compound Model
- ARIMA Model

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