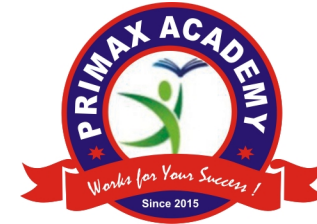


PRIMAX ACADEMY

(Primax Educational Trust)



**5 DAY - WORKSHOP
ON
"DATA ANALYTICS"**

For

Faculties and Research Scholar

On

**07-11-2020 to 11-11-2020
(05.00 PM to 09.00 PM)**

**MODE OF CLASS
ZOOM CLOUD MEET**

FOR REGISTRATION

CLICK HERE

Registration Fee Rs.1,500

Further Contact

Ph: 8971725451

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
- Formulation Hypothesis
- Formulation of Problem
- Preparation of Questionnaires
- Research Design
- 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, Cronbach Alpha).

● **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.

● **Advance Excel (Basic All Statistics Functions)**

- Basic Mathematical Functions
- Statistical functions & Graphs
- Accounting Functions
- Financial Functions

● **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, Distance 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 Means Clustering.
- Non-Parametric tests (Test for Normality, Mann Whitney U test, Krushkal Wallis test, Wilcoxon test, Friedman Test, Run Test etc.)
- Time series
- All types of Graphs – Bar Diagram- Pie Diagram- Scatter Dot- Histogram – Box Plot
- ROC Curve

ABOUT OUR PROGRAMME

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. Most of the users of statistics, as a decision making tool, feel themselves handicapped in selection of an appropriate statistical tool, understanding the theoretical concept and interpretation of results in a meaningful way. It is really difficult for a person who is not well versed with research methodology and the core philosophy of statistics. A research is initiated to have some practical consequences. This workshop has been designed to provide clear guidelines on how to undertake research as well as highlights the realities of undertaking research, including more common pitfalls.

Who can Attend?

- **Faculty members**
- **Research Scholars**
- **Practitioners**
- **Executive from Corporates**
- **Post Graduate Students of social Science, Computer Science Management, Commerce, Economics etc.**

Note:

- **The maximum intake 30 Seats.**
- **The fee Include Materials, Demo Statistical Software, E-Certificate.**
- **No Video recording.**
- **Participants needs to have their laptop with mouse along with internet during online session.**

“HAPPINESS COMES FROM GIVING HAPPINESS”