PRIMAX ACADEMY
BENGALURU, KARNATAKA

www.primaxfoundation.com

ORGANIZING
Webinar
5 DAY
ONLINE WORKSHOP
ON
STATISTICAL ANALYSIS USING
"R"

About Primax Academy

Primax Academy was established in the year 2018 and it was registered under the Indian trust act. Primax Academy is established with towering ideals of imparting quality and non-profitable services to the society through Training Programme, Seminars, Workshops, Educational Training & Skill Development, Study Circles, Counseling & Rehabilitation, Initiating Research Activities etc., Primax Academy is an upcoming Training and Development Center in Bangalore offering a variety of need based training programs, through on-and-off campus modes. In addition, its intention is to upgrade the quality of research work among the faculty members involved in Science & Humanities, Commerce, Management Education and the allied fields to ensure that all the research work undertaken, is gainfully put to use by the industry, society and corporate world.

About Workshop

This workshop aims to provide simple and exhaustive ways of data analysis through online interactive and practice sessions along with theory behind. Training sessions are well designed and structured to cover the topics outlined in the programme. The Topics have been so chosen that the intricacy of research methods and analysis may be understood by even those participants who do not have any initial background of statistics.

Sample data set to analyze and study material will be shared by email to the participants for practice and to grain confidence to handle their respective data while conducting researches in their respective subject domains.

REGISTRATION THROUGH GOOGLE LINK...

https://forms.gle/aro5y8GRsDq4AAQy8

Date & Time
26/06/2020 to 30/06/2020
Time: 5.00 PM to 9.00 PM

Registration Fee Rs.1,500

Further Contact
Ph: 8971725451

Resource Person

Dr.M.Ramakrishan
Assistant Professor,
P.G & Research
Dept. of Mathematics
RKM Vivekananda college
Chennai. Tamil Nadu.

He has done his Ph.D in Mathematics-Statistics from the University of Madras under the Guidance of **Dr.R.Ravanan**. He has twenty-six years of teaching experience in mathematics. His Specializations are mathematical statics, Ordinary Differential Equations and Partial Differential Equations. His Research area is Survival Analysis. He has expertise in handling software SPSS, STATA, R Programming, WINBUGS, EXCEL and SCILAB. He has conducted several "R" Software training programme across India.

PROGRAMME CONTENT

Day I- Introduction and Preliminaries

History of R Programming Language, INSTALLING R and R Studio, Why R, Packages, R and Statistics, R and other software & Using R Getting started with R

Handling of R

R as a Calculator & Data Structure & Vectors, Matrices, Arrays, Data frames, Factors and Lists

Day -II- Research Methodology

Research and its approaches, Research, Methods versus, Methodology, Types of Sampling, Sample Measurement, Research Guidelines for Constructing questionnaire.

Basic Data Management

Data input – Entering data from the keyboard, importing data from Excel, SPSS, SAS, STATA, Creating new variable, Recoding variables, Renaming Variables, Missing Values, Sorting Data & Merging datasets Subsetting datasets.

Day III- Statistics in Research

Functions of Statistics, Frequency and contingency tables, Descriptive Measures, Diagrammatic and Graphic Presentation & Descriptive Analysis using R.

Statistical Inference Theory

Parameter and Statistic, Testing of Hypothesis, Tests of significance of means for large Samples, Testing of Proportions & Sample Size Determination.

Day IV- Parametric Tests in Statistical Analysis

Student's 't' Distribution, t-test for Difference of Means, Paired t-test for Difference of Means, Analysis of Variance (ANOVA- One Way and Two-Way ANOVA) & Karl Pearson Correlation Coefficient.

Nonparametric Tests in Statistical Analysis

The Wilcoxon signed rank sum test, Wilcoxon Signed Rank Test for Dependent Data, Mann Whitney U Test (Wilcoxon Rank Sum Test), Kruskal-Wallis One-Way Analysis of Variance, Friedman Test with repeated Measures, Spearman Rank Correlation Coefficient & Chi-square Test.

Checking the Reliability of a Scale

Cronbach's alpha

Day V- Linear Regression

Simple Linear Regression & Multiple Linear Regressions.

Generalized Linear Models

Structure of Generalized Linear Models, Logistic regression & Poisson Regression.

Factor Analysis

Kaiser-Meyer-Olkin Measure, Bartlett's test of sphericity
Principal Component Analysis (PCA), Exploratory Factor Analysis (EFA), Construct Reliability, Discriminant Validity.

Structural Equation Modelling

Path Analysis, Confirmatory Factor Analysis and Structural Model. Handling of "R" using Smart Phone

Who can Attend?

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

MODE OF CLASS
Online through

CISCO WEBEX
(Or)
ZOOM CLOUD MEET

Note:

- **The maximum intake 60 Seats.**
- **The Fee Include Materials, E-Certificate.**
- **No Video recording.**
- **Participants needs to have their laptop with mouse along with internet during online session.**

"HAPPINESS COMES FROM GIVING HAPPINESS"