

Centre for Statistics
SRM Institute of Science and Technology

Workshop on Basic Statistics using Statistical Software

About the Course

This workshop will enable the participants to perform basic analysis of their own data, and to interpret, predict, communicate and publish the results.

The main focus of the course will be on both descriptive and inferential statistical techniques, with emphasis on selection of appropriate application and interpretation of results.

Course Content

- Descriptive Statistics
 - Types of data, Measures of Central tendency, Measures of dispersion
- Sampling Methods
 - Overview and types of sampling techniques
 - Sample size determination.
- Statistical Inference I
 - Estimation of mean and proportions,
 - Confidence interval, P- Value and its importance
- Statistical Inference II
 - Test of hypothesis
- ANOVA and Chi-square analysis
- Correlation and Regression analysis

Course Schedule

Day	1st Session 1.00pm to 1.45 pm	2nd Session 2.00 pm to 2.45 pm	3rd Session 3.00 pm to 3.45 pm (practical session)
Day 1	Introduction to statistics	Descriptive data analysis	Introduction to SPSS
Day 2	Types of sampling techniques	Sample size determination	Descriptive data analysis in SPSS
Day 3	Inferential Statistical Analysis - Introduction	Confidence interval, P-value and its importance	Graphical representation and visualization in SPSS
Day 4	Test of Hypothesis - 1	Test of Hypothesis - 2	Mean test – single and two sample
Day 5	ANOVA and Chi –square & practical	Correlation Analysis	Regression Analysis in SPSS

Course Date

01st February 2022 – 05th February 2022

Venue

University Building, 13th floor, Centre for Statistics

Participant Fee

1000 INR/Person

Co-ordinator

Dr. M. Bagavandas (Head)

Course Instructors

Mr. A. Ramajayam

Mr. V. Raghul Gandhi

No of Participants: 10