

**Centre for Statistics**  
**SRM Institute of Science and Technology**  
**Workshop on Basic Statistics for Research**

## **Overview**

This course is designed specifically for researchers who deal with data and want to acquire some statistical skills. It is Part 1 of a two-part course that may be taken together for your basic skills. This course covers basic statistical concepts. Course participants should have access to a standard statistical software package for use in course exercises.

## **Who Should Take This Course**

This course is specially designed for researchers who deal with data and want to acquire some statistical skills.

## **Course Syllabus**

Following topics will be covered during the course

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

## **Prerequisites**

SPSS Trial version must be installed.

## **Course Date**

10th April 2023 – 12th April 2023

## **Venue**

University Building, 13th floor, Centre for Statistics

**Participant Fee**

1000 INR/Person

**Co-ordinator**

Dr. M. Bagavandas (Head)

**Course Instructors**

Mr. V. Raghul Gandhi

**No of Participants: 11**

**Workshop photo:**