

## **MC130-Statistical Techniques Lab**

### **Course Description & Objectives:**

The course provides a basic knowledge of statistics and make the students familiar with the software for statistics. It enables the students learn to solve simple technique which helps them to make analysis and effective decision making.

### **Course Outcomes:**

The student will be able

- to learn basics of statistics
- and familiar with the software for statistics.
- to interpret and analyse data

### **List of Experiments:**

1. Tabulation of data
  - a) One way Frequency
  - b) Two way Frequency
2. Construction of Histogram
3. Construction of Pie Chart
4. Construction of Line Chart
5. Construction of Scatter Chart
6. Descriptive Statistics
7. Correlation Analysis
8. Simple Regression Analysis
9. Multiple Regression Analysis
10. Fitting a trend line to an observed data
11. Polynomial Trends
12. Logarithmic, power and exponential trends
13. Moving averages

### **REFERENCE BOOK**

1. K.V.S Sharma, "Statistics Made Simple Do it yourself on PC" TMH, Second Edition (2002)