

*Progressive Education Society's*  
**Modern College of Arts, Science and Commerce,**  
Shivajinagar, Pune – 5

**First Year of B.Sc. Computer Science**  
**(Course under NEP 2020)**

**Course Code: 23CsCmpU1601**

**Course Name: Statistical Analysis using R programming I**

**Teaching Scheme: 4 Hours/Week**

**Credit: 2**

**Examination Scheme: CIA: 20 Marks**

**End-Sem: 30 Marks**

**Pre-requisites:** Good logic and aptitude

**Course outcome:** On completion of the course, student will be able to understand:

- Statistical techniques and R programming.

| Sr.No. | Title of Experiment/ Practical                                        |
|--------|-----------------------------------------------------------------------|
| 1      | Introduction to R-I                                                   |
| 2      | Introduction to R-II                                                  |
| 3      | Graphical and Diagrammatic representation of statistical data using R |
| 4      | Measures of Central Tendency-I                                        |
| 5      | Measures of Central Tendency-II                                       |
| 6      | Measures of Dispersion-I                                              |
| 7      | Measures of Dispersion-II                                             |
| 8      | Measures of Skewness and Kurtosis I                                   |
| 9      | Measures of Skewness and Kurtosis II                                  |
| 10     | Probability -I                                                        |
| 11     | Probability -II                                                       |
| 12     | Fitting of Binomial, Poisson and Geometric Distribution               |
| 13     | Model sampling from Binomial, Poisson and Geometric Distribution      |
| 14     | Application of Binomial, Poisson and Geometric Distribution           |
| 15     | Correlation and Scatter diagram                                       |

**\*All practical are to be performed using R software**