B. Sc. –II [Mathematics] Semester III

Skills Enhancement Course

R software –I

U-ADC-334-R

Learning Objectives:

- ➢ Use of R Calculator
- ➢ Matrix operations

Course Outcomes:

 On completion of this course successfully students will be getting following skills:

- ➢ Using loops in R software

- ➢ Sorting and ordering and lists in R software

Skill- I

Basic fundamentals, installation and use of software, data editing, use of R as a calculator, functions and assignments. Use of R as a calculator, functions and matrix operations, missing data and logical operators.

Skill-II

Conditional executions and loops, data management with sequences. Data management with repeats, sorting, ordering, and lists

Reference Books

1. Introduction to Statistics and Data Analysis - With Exercises, Solutions and Applications in R By Christian Heumann, Michael Schomaker and Shalabh, Springer, 2016

2. The R Software-Fundamentals of Programming and Statistical Analysis -Pierre Lafaye de Micheaux, Rémy Drouilhet, Benoit Liquet, Springer 2013

3. A Beginner's Guide to R (Use R) By Alain F. Zuur, Elena N. Ieno, Erik H.W.G. Meesters, Springer 2009