College of Arts, Science & Commerce (Autonomous)

SIES

RISE WITH EDUCATION

NAAC REACCREDITED "A" GRADE

Sion (West), Mumbai – 400022.

Department of Statistics

Program: B.Sc.

Vocational Skill Enhancement Course (VSE) Course

in Statistics

Syllabus for F.Y.B.Sc. (Statistics)

Semester I and II (To be implemented from 2023 onwards)

Credit Based Semester and Grading System National Education Policy

TITLE OF COURSE	INTRODUCTION R SOFTWARE			
COURSE CODE	**UNIT**	**TOPICS**	**LECTURES/WEEK**	**CREDITS**
	I	**Introduction to R software**	1	**2**
	II	**Data Exploration and Analysis**	1	

SEMESTER I & II

Course Code	Title	Credits
	Introduction to R software	**2 Credits** (30 lectures)
Unit I: Introduction to R software **Overview:** Introduction & history of R software. **Basic commands:** Command, help, quit, library, installing packages, data import, data editor, cleaning up the windows, setting up directories. Introduction to R studio. Description of command window, console, environment window, output window. **Functions:** Operational functions, built in functions, Basic matrix commands, Operation with strings, factor, cat function, paste function, Handling Categorical and Continuous data		**15 Lectures**
Unit II: Data Exploration and Analysis **Operators and loops:** Logical operations, Conditional execution, Control structures in R Introduction to data sets, Data preparation and handling missing observations, Graphical representation.		**15 Lectures**