MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA -8
(Affiliated to Krishna University, Machilipatnam)
SYLLABUS

Subject: Computer Science   **Semester: V/VI**
Course Title: R Programming – Practical   **Course Code: 20CSP511RP1**
No of Hours: 30 Hrs.   **LTP: 002**   **Credits: 1**

Objectives
● To practice the R syntaxes and write programs.
● To identify and program the R concepts and techniques.

Course Outcomes
CO1: Load data in to R.
CO2: Organize data in the form of R objects and manipulate them as needed.
CO3: Perform analytics using R programming.

List of Practicals: **(30 Hrs.)**
1. Create a vector in R and perform operations on it.
2. Create integer, complex, logical, character data type objects in R and print their values and their class using print and class functions.
3. Write code in R to to demonstrate sum(), min(), max() and seq() functions.
4. Write code in R to manipulate text in R using grep(), toupper(), tolower() and substr() functions.
5. Create data frame in R and perform operations on it.
6. Import data into R from text and excel files using read.table () and read.csv () functions.
7. Write code in R to find out whether number is prime or not.
8. Print numbers from 1 to 100 using while loop and for loop in R.
9. Write a program to import data from csv file and print the data on the console.
10. Write a program to demonstrate histogram in R.

Skill/Hands-on: Field work/Mini Project

  • Analyze the pass percentage of an institution and use the customized graphs to represent the data.

Reference Book

- R in Action - Robert L. Kabacoff, Latest Edition – Second, Formats Available – paperback, Publisher - Dreamtech Press.

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Practical-Scheme of Valuation

Time: 3 Hrs.   **Max. Marks: 50**

Practical	Marks
Program Writing	15 M
Program Execution	15 M
Viva	10 M
Practical Record	10 M
Total	**50 M**