



# SWARNANDHRA

## COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956, Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

### DEPARTMENT OF INFORMATION TECHNOLOGY

### TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods /Week	Academic Year	Date of commencement of Semester
20IT7S01	R - PROGRAMMING LAB	VII	IT	3 Periods	2025-26	09-06-2025
COURSE OUTCOMES						
1	Build R Programming Environment. (K3)					
2	Outline the use of R – Data types. (K2)					
3	List out and use of R – Data Structures. (K4)					
4	Develop programming logic using R – Packages. (K3)					
5	Analyze data sets using R – programming capabilities (K4)					
Experiment Number	Experiment					Contact Hours
1	Download and install R-Programming environment and install basic packages using install. packages() command in R					3
2	Learn all the basics of R-Programming (Data types, Variables, Operators etc.)					3
3	Write a program to find list of even numbers from 1 to n using R-Loops.					3
4	Create a function to print squares of numbers in sequence.					3
5	Write a program to join columns and rows in a data frame using cbind() and rbind() in R.					3
6	Implement different String Manipulation functions in R.					3
7	Implement different data structures in R (Vectors, Lists, Data Frames)					3
8	Write a program to read a csv file and analyze the data in the file in R.					3
9	Create pie chart and bar chart using R.					3
10	Create a data set and do statistical analysis on the data using R.					3
CUMULATIVE PROPOSED PERIODS						30



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	Name	Signature with Date
i. Faculty	Mrs. R Uma Aruna Devi	R. Uma Aruna Devi
ii. Module Coordinator	Mr. MNVL Narayana	MNVL Narayana
iii. Programme Coordinator	Dr. RVVSV Prasad	Dr. RVVSV Prasad

*A. V. V. S. V.*  
Principal