

Lesson Plan

Name of Faculty : Ms. Varsha Rani, Assistant
Professor Class : Computer Engineering
Semester : 7th
Subject : Software Testing Lab (CSE-412-P)
Lesson Plan Duration: 15 weeks (from FEB-2025 to JULY-2025) Work Load
(Lecture/Practical) per week (in hours): Lectures-03hours, Practical-02hours

| Week | Theory/ Practical (Group-I/ II) | | Topic Covered Date and Remarks | | |
|------------------|---------------------------------|--|--------------------------------|-----|--------------------|
| | Practical Day | Topics/ Programs | Date | HOD | Director-Principal |
| 1 st | 1 | Write a program to count the number of digits in a number. Its input is any number from interval [0, 9999]. Design the boundary value analysis test cases and robustness test cases. | | | |
| 2 nd | 2 | Write a program to calculate cyclomatic complexity | | | |
| 3 rd | 3 | Consider a program to perform binary search and generate the test cases using equivalence class testing and decision table based testing. | | | |
| 4 th | 4 | Write a program to determine whether a number is even or odd. Draw the program graph and DD path graph. Find the independent paths. | | | |
| 5 th | 5 | Consider the program for classification of a triangle. Consider all variables and generate possible program slices. Design at least one test case from every slice. | | | |
| 6 th | 6 | Consider the problem statement of a University Student Registration System. Prepare the software requirement checklist with the details of faults in the given SRS. | | | |
| 7 th | | VIVA VOCE 1ST | | | |
| 8 th | 7 | Write a program to generate, minimize and prioritize test cases using any programming language/Matlab Tool/Software Testing tool. | | | |
| 9 th | 8 | Write the outline of test plan document as per IEEE Std 829-1998.. | | | |
| 10 th | 9 | One assignment to be done in groups | | | |