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Course Code: CSE107
Semester: I

FUNDAMENTALS OF COMPUTER SCIENCE LAB

Course Objectives:

This course will help the learners to understand a strong formal foundation in problem solving techniques .The learners will be able to implement the algorithms and analyze their complexity. The learners will be able to identify the correct and efficient ways of solving problems using ANSI C.

LIST OF EXPERIMENTS

1. Algorithm and flowcharts of small problems (GCD, Prime no generation, etc...)
2. Programs using input, output statements and operators
3. Programs using proper parameter passing
4. Programs using command line Arguments
5. Programs using function with variable parameter
6. Programs using pointer to functions
7. Programs using user defined header
8. Demonstrate Make file utility
9. Programs using multi file program and user defined libraries
10. Programs using substring matching or searching
11. Programs using parsing related assignments

COURSE LEARNING OUTCOMES

Upon successful completion of this course, the learner will be able to

- Outline basic knowledge in problem solving techniques, algorithms and flow chart
- Design various algorithms, and develops the basic concepts and terminology of programming in general
- Construct real time applications using the power of C language features like functions, strings, files and pointers.
- Apply Make file utility in real time projects.
- Demonstrate file management systems using built in functions

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