CAP173:PROGRAMMING METHODOLOGIES-LABORATORY

L:0 T:0 P:2 Credits:1

Course Outcomes: Through this course students should be able to

CO1 :: understand how programming concepts relate to algorithms.

CO2 :: apply different operations that can be performed on a file.

CO3 :: analyze how to compile, debug, run and test programs.

CO4 :: develop the logic which will help to create programs and applications.

List of Practicals / Experiments:

Introduction

- Installation of TurboC and Code Block
- Overview of Interface
- Implement printing of messages on the screen
- printing of messages in multiple lines with tab spaces
- taking inputs from the user

Data Types and Operators

- Implement data types
- arithmetic operators
- logical operators
- Relational operators
- Conditional Operator

Control Statements and Decision Making

- Implement different types of Conditional statements
- switch statement
- looping statements
- break and continue statements
- goto statement

Functions

- Implement functions
- arguments to function
- Implementation of pointers
- call by value and call by reference

Introduction to Arrays

- Declaring ,initialization and processing arrays in C
- 1-D arrays
- 2-D arrays
- addition of two matrices
- Sorting and searching operations
- Implement strings

- String Handling Functions

File Handling

- Opening and closing files
- Reading and writing in files
- Structure declaration, definition and initialization
- Union declaration, definition and initialization

Text Books:

1. C: THE COMPLETE REFERENCE by SCHILDT AND HERBERT, MC GRAW HILL

References:

1. PROGRAMMING IN ANSIC by BALAGURUSAMY, KINDLE EDITION