Course No.	Course Name	L-T-P-Credits	Year of Introduction
110	**Computer Programming Lab**		**2016**

Course Objective:

• To implement algorithms studied in the course ComputerProgramming
• To learn the implementation of control structures, Iterations and recursive functions.
•To implement operations on different types of files.

List of Exercises / Experiments
(For Computer Science and Engineering Branch)

The exercises may include the Programs using the following concepts.

1.Decision making, branching and looping
  - if, if else statements
  - switch, goto statements
  - while, do, for statements

2.Arrays and strings
  - one-dimensional, two-dimensional, multidimensional arrays
  - reading/writing strings
  - operations on strings
  - string handling

3.Functions
  - user defined functions
  - function calls, arguments & return values
  - nesting of functions
  - recursive functions
  - passing arrays and strings to functions

4. Structures and unions
  - copying and comparing structure variables
  - arrays of structures
  - arrays within structures
  - structures with in structures
  - structures and functions
  - unions

5. Pointers
  - pointers and arrays
  - pointers and character strings
  - array of pointers
  - pointers and functions
  - pointers and structures

6.Files, memory allocation, bit-level programming
-files -defining, opening/closing, input
-output operations
-command line arguments
-memory allocation functions

Course Outcome

  Students will be able to analyse a problem, find appropriate programming language construct should be used and implement C program for the problem.