

Course code	Course Name	L-T-P - Credits	Year of Introduction
MT233	COMPUTER PROGRAMMING IN C LAB	0-0-3-1	2016
Prerequisite : MT205 Computer programming in C			
Course Objectives <ul style="list-style-type: none"> To understand the basic concept of C Programming, and its different modules that includes conditional and looping expressions, Arrays, Strings, Functions, Pointers, Structures and File programming 			
List of Exercises/Experiments : <ol style="list-style-type: none"> Programming experiments in C to cover input output statements, control statements, functions, strings, arrays, Structures, pointers and files. Programs for <ol style="list-style-type: none"> Counting characters, lines and words Checking leap year Finding sum of digits and reversing a number Generating Prime numbers, Fibonacci numbers and Angstrom numbers, factorial, search Sine and Cosine series generation Sorting of numbers, strings and records Matrix addition and multiplication, transpose Implementation of dynamic memory allocation Problems related to macros Problems related to files Problems related to command line arguments 			
Expected Outcome . At the end of this course, the students would be able to: <ol style="list-style-type: none"> Acquire knowledge about the basic concept of writing a program. Understand the role of constants, variables, identifiers, operators, type conversion and other building blocks of C Language. Use of conditional expressions and looping statements to solve problems associated with conditions and repetitions. Understand the concept of Array and pointers dealing with memory management. Manage File Handling for permanent storage of data or record. Role of Functions involving the idea of modularity. 			