

Title	Programming Fundamentals Lab
Code	CMP-341
Credit Hours	1
Category	Computing core
Prerequisite	None
Co-Requisite	None
Follow-up	None
Course Description	Topics: Implementation of the concepts studied in “CMP140-Programming Fundamentals” Flowcharts/Pseudo Codes, Data types, Variable and Constants, Operator and Expressions, Input and Output (I/O), Formatted I/O, Escape Sequences, Decision making using if/swiwith control structure, Repetition using for and do while, functions, prototype, parameter and arguments, call by value and call by reference, Library and header files. Array, Passing Arrays to function, multi-dimensional arrays, searching and sorting. Pointers: pointer definition, pointer arithmetic, constant pointers, pointer and arrays. Dynamic Memory Allocation. User Defined Data Types: structures, definition, initialization, accessing members of structures, typedef, unions. C File Processing: files and streams, Sequential Access File, Random Access File, Secondary Storage I/O. Miscellaneous Topics: Command Line Arguments.
Text Book(s)	
Reference Material	