

FIRST YEAR

Computer programming	E108
Prerequisite : U105	(2-1-0-2)

Introduction and Definitions: Building a Program - History of C++ Language - Typical C++ Development Environment- The Main structure of C++ programs - Data type- Variable declaration - Constant declaration - Simple Input/Output. Statement: Arithmetic Operators - Relational Operators - Logical Operators -Assignment Operators - Increment & Decrement Operators -Bitwise Operators - Misc Operators. Conditional (Selection) Statement: if statement - if...else statements - Nested if statements - Switch statement. Iteration (Repetition) statements: while statement - do/while statement - for statement - Nested for statement. Array: Array declaration - Single dimensional array - Multiple –subscripted Arrays - String (1D array of characters) - Array of strings (2D array of characters). Functions: Function Prototypes (declaration) - Calling Function - Function Definition - Passing Arguments functions. Pointers: Advantage of using pointers – pointers in array.

Practical part: Application of Programming by C++.