

K.L.N.COLLEGE OF ENGINEERING, POTTAPALAYAM

Department of Electrical and Electronics Engineering

5days training program on C & C++ from 11th to 15th Dec 2017 for 2nd year EEE students

Day 1:

- a. Understanding of a C - Program Structure.
- b. Complete understanding of the Basic Syntax of C-Program.
- c. Detailed understanding of Data Type which is very essential always when we learn any programming language to handle the datas.
- d. How to handle the variables which needs to be discussed completely.
- e. Detailed discussion on Constants and Literals.
- a. Complete discussion of different Storage classes.
- b. Detailed understanding of the different Operators, which would be crucial when the written exam comes. This operator makes the student's mind dilemma, so it needs a proper understanding.
- c. Understanding of the loops and condition statements.

Day 2:

- a. Detailed understanding of different types of Arrays on how to declare, initialize and access those members.
- b. Complete understanding of Pointer concept which is very crucial to the students.
 - Null Pointer.
 - Pointer Arithmetic.
 - Incrementing a Pointer.
 - Decrementing a Pointer.
 - Pointer Comparisons.
 - Array of Pointers.
 - Passing Pointers to functions.
 - Return Pointer from functions.

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Day 3:

- a. Detailed study of the String. (In-Build library)
- b. Detailed study of the Structures.
 - Defining a Structure.
 - Accessing Structure Members.
 - Structures as Function Arguments.
 - Pointers to Structures.
- c. Detailed understanding of Unions.
 - Defining a Union.
 - Accessing Union Members.

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C++:

Day 4 & 5:

- a. Understanding of Basic C++ Syntax.
- b. Understanding of Data Types, Variables, Constants/Literals and Modifier Types.
 - a. Detailed study of Classes & Objects in C++
 - Public member
 - Private member
 - Protected member
 - Constructor and parameterized Constructor
 - The class Destructor
 - Static function members.
 - b. Understanding of Inheritance
 - Base & Derived classes
 - Access control & Inheritance
 - Type of Inheritance
 - Multiple Inheritances
 - c. Detailed understanding of overloading
 - Function overloading in C++
 - Operators Overloading in C++
 - Overloadable/non-overloadable operators
 - Operator Overloading Examples.
 - d. Complete understanding of Polymorphism
 - Virtual Function
 - Pure Virtual Functions
 - friend Functions
 - inline Functions