MSME-Tool Room, Guwahati

Tool Room & Training Centre, Guwahati

Course Time Table

SUBJECT: C++ Programming   DURATION: 2 weeks   PER DAY: 3 hrs

OBJECTIVE:

At the end of Session Participants Should Know:
* Creation of object-oriented programs with C++ classes.
* learn how to design and program in C++

Day	Course Content
Day 1	✓ Online software installation guidance with self-introduction and interaction. ✓ Software installation guidance. ✓ Introduction to TRTC. ✓ Introduction to C++ ✓ How to write & run a C++ program
Day 2	✓ Statements & Comments ✓ Characters set in C++ ✓ Tokens ✓ Identifier ✓ Keywords ✓ Constants
Day 3	✓ Indentation ✓ Variable ✓ Format Specifier ✓ Data types(number,string,list,tuple,set,dictionary) ✓ Practice Exercise ✓ Type casting, Type conversion ✓ Input and output
Day 4	✓ Operators in C++ – Arithematic operator, Relational operator, Assignment operator, Logical operator, Bitwise operator, Identity operator ✓ The If statement and its' related statement ✓ An example with if and it's related statement ✓ The for loop ✓ Practice exercise on looping ✓ The while loop
Day 5	✓ The range statement ✓ Break & Continue

	✓ Assert ✓ The Do-While Loop ✓ Practice exercise on looping ✓ Array in C++ ✓ 1D-Array , sorting, searching, merging ✓ 2D-Array,Array sum, Difference, multiplication ✓ Omit Array size
Day 6	✓ Practice Exercise ✓ C++ References ✓ Memory address ✓ Pointers ✓ Dereferencing ✓ Modifying pointers
Day 7	✓ Function Basics ✓ Defining function ✓ Function call ✓ Return statement ✓ Function parameters ✓ Call by value or call by reference ✓ Local and global variable ✓ Recursion
Day 8	✓ C++ OOP Concepts ✓ Classes & objects ✓ Class Methods ✓ Constructors ✓ Access Specifier ✓ Destructor ✓ This pointer
Day 9	✓ C++ Static ✓ C++ Enumeration ✓ Friend Function ✓ Encapsulation ✓ Practice Exercise
Day 10	✓ Practice Exercise ✓ Inheritance ✓ C++ Aggregation ✓ Practice Examples
Day 11	✓ Polymorphism ✓ C++ Overloading ✓ Practice Exercise ✓ C++ Overriding ✓ Virtual Function
Day 12	✓ Abstract classes & Interfaces ✓ Data Abstraction ✓ C++ Namespaces ✓ C++ Strings ✓ Exception Handling in C++ ------ Try, Catch & Throw ✓ Practice Examples
Day 13	✓ C++ User Defined Exceptions

	✓ C++ Files & Streams
	✓ Revision & Practice

N.B:

   *Classes & Demonstration will be conducted every day for a time period of Two hour & doubt clear Session of one hour with all day online/on-call support.

   *Hard copy of Certificate will be send to Participant's address by post or it may also be collected from our Centre when situation get normalized.

   *Each trainee can avail a free one-week Internship (Practical/Project based) training at our Centre after this pandemic situation get normalized.

You may contact with coordinator for course related further information.
Course Coordinator: Sudeep Basak
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