C & C++ Course Details

By [**Besant Technologies**](http://www.besanttechnologies.com/)

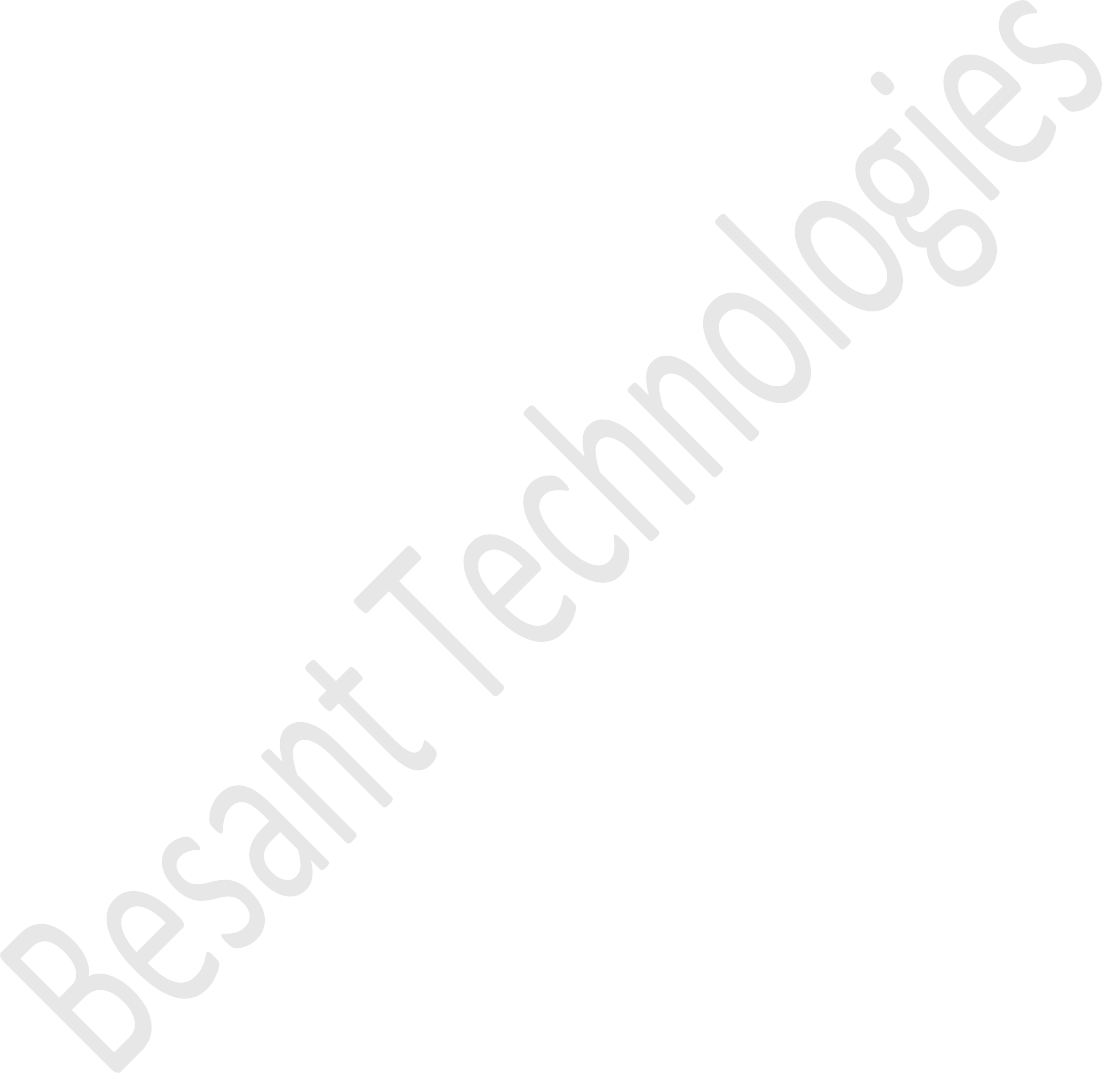
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| Course Name C & C++ |
| Category Programming Languages |
| Venue Besant Technologies |
| No.24, Nagendra Nagar, Velachery Main Road,  Address Velachery, Chennai – 600 042 Landmark – Opposite to Phoenix Market City |
| Official URL [C & C++ Training](http://www.besanttechnologies.in/c-c-plus-plus-training-in-chennai.html) |
| Demo Classes At Your Convenience |
| Training Methodology 40% Theory & 60% Practical |
| Course Duration 35-40 Hours |
| Class Availability Weekdays & Weekends |
| Call - +91-996 252 8293 / 94  For Demo Class  Email ID – [besanttech@gmail.com](mailto:besanttech@gmail.com) |

# Why Besant Technologies?

* Training by highly experienced and certified professionals
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* Interactive session with interview QA’s
* Real-time projects scenarios & Certification Help
* Most competitive & affordable course fees
* Placement support for all courses
* List of established & satisfied clients & students ([Visit our website for reviews](http://www.besanttechnologies.com/reviews-complaints-testimonials)).

# C & C++ Training Outline

## Introduction

* The C Language and its Advantages
* The Structure of a C Program
* Writing C Programs
* Building an Executable Version of a C Program
* Debugging a C Program
* Examining and Running a C Application Program

## Data Types and Variables

* Data Types
* Operands, Operators, and Arithmetic Expressions

## Input/Output Management

* The Input/Output Concept
* Formatted Input Function

## Control-Flow Statements

* The Control-Flow Program Statements
* Looping Statements
* The Data-checking process

## Modular Programming with Functions

* The C Function
* Passing Data to Functions
* Passing an Address to Modify a Value in Memory
* Using Functions in the Checkbook Program
* C Standard Library Functions

## Arrays, Pointers, and Strings

* Arrays , Pointers , Strings
* Using Arrays, Strings, and Pointers in the Checkbook Program

## Structures

* Structures
* Arrays of Structures
* Passing Structures to Functions
* Nesting Structures

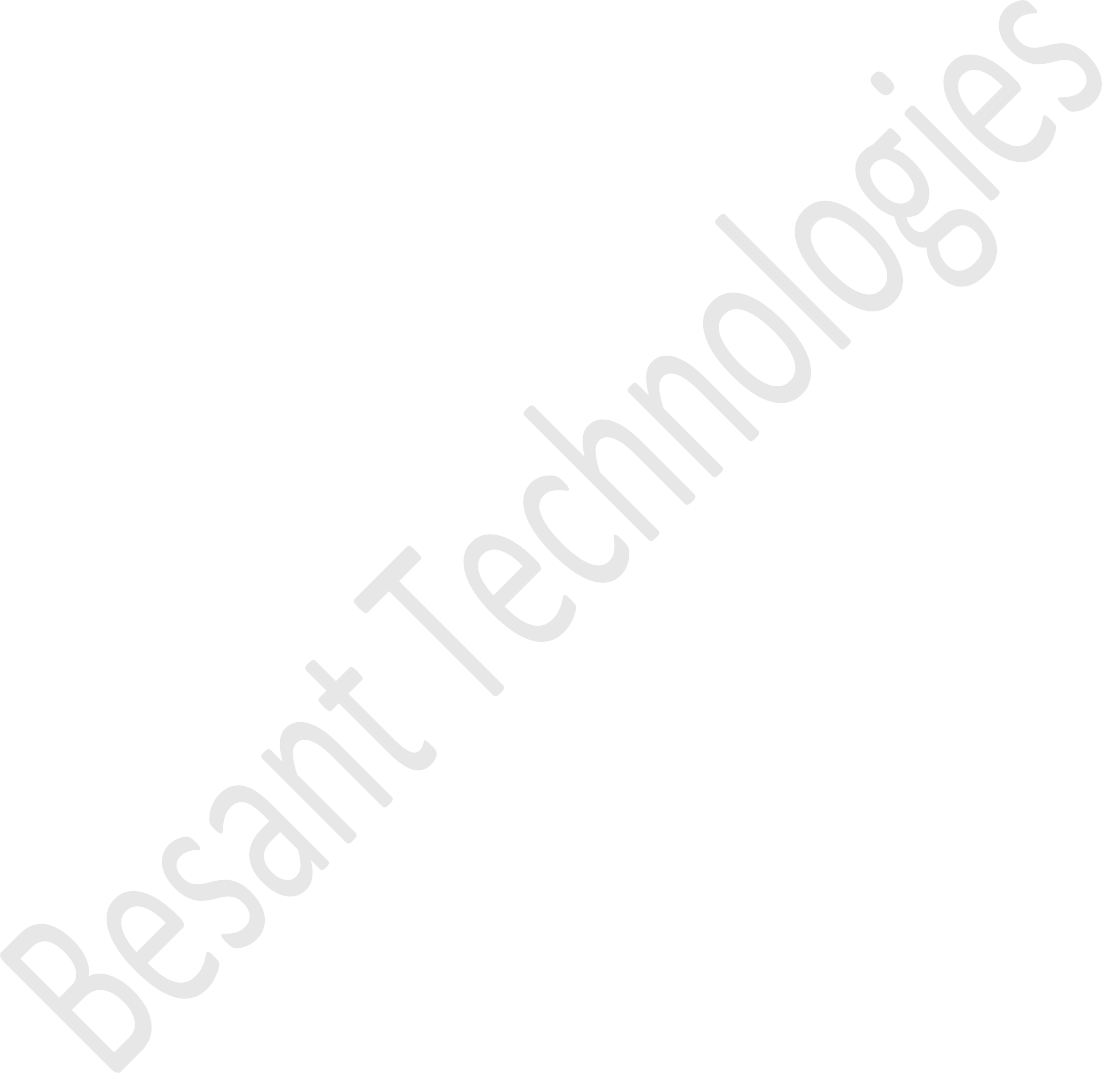
## File Input/Output

* Command-line Arguments
* Combining Command-line
* The following topics are covered in our C C++ Training in Chennai

## C++ Training Syllabus Introduction to C++

* Creating a project
* Writing, compiling and running a program

## Variables and data types

* Expressions
* Constants
* Operators
* Type conversions

## Looping constructs: while, do…while, for loops

* If…else statements
* Switch/case construct

## Functions

* Passing arguments
* Function prototyping
* Default argument initializers
* Inline functions

## Arrays

* Array initialisation
* Multi-dimensional arrays
* Character arrays
* Working with character strings

## Storage Classes

* Global variables

## Pointers

* Pointer and arrays
* Pointers to character strings
* Arrays of pointers
* Memory slicing
* Pointers to functions

## C++ classes

* Data members and member functions
* Creating objects
* The new and delete operators
* Friends to a class
* Class initialisation

## Reference types

* Reference type arguments

## Function overloading

* Operator overloading

## Copy constructor

* Assignment operator

## Template classes

* Static class members
* File streams

## Inheritance

* Base classes and derived classes
* Inherited member access
* Base class initialisation
* Protected members of a class

## Virtual functions

* Virtual destructors

## Virtual base classes

* Virtual base class member access
* Constructor and destructor ordering

## Exception handling

* try…throw…catch block
* Nested catch handlers