

# **ThinkNEXT Technologies Private Limited**

## **SCF 113, Sector-65, Mohali (Chandigarh)**

### **An ISO 9001:2008 Certified Company**

**Software Development | Electronics Systems Development  
| CAD/CAM Systems | Industrial Training | Placements**



# **Why C++ ?**

- It is a highly developed programming language in terms of operators, simplicity, and ease of notation. This allows for data abstraction and the use of several programming paradigms: procedural, object-oriented and generic. It is mainly used in applications and operating systems.
- The C++ language can be used for building higher-level applications with graphics libraries, applications to communicate with network devices and computer network simulators as well as remote device systems and network management.

# **Future Scope in C/C++**

- C++ is a powerful, high-performance language used to build system software, games engines and desktop and web apps.
- C++'s biggest advantages are big efficiency and speed. It can also easily optimize huge amounts of data. That's why it is most often applied in big, robust applications such as servers, where data processing is crucial. What is more, its efficiency reduces the energy usage, which make it a great language for mobile devices.
- It is the main technology in case of Microsoft, Oracle, Mozilla, Opera, PayPal, Evernote and LinkedIn. And it is partly used in the code of Amazon, Facebook, SAP and Adobe.

- C++ grew by about 20,000 job postings over 2016 and passed C to take fifth place. In fact, some of the software giants of all times are based on C++. Many beginners find C++ harder to learn than dynamically typed languages like Python or JavaScript.
- Google still applies C++ in some fields like search engines. Most importantly, Google Chrome was primarily written in this language. Being extremely popular among users all over the world, Google required high performance and big stability, which are the main characteristics of C++.
- Finally, C++ is present in most of the operating systems, such as Windows or iOS; and some of the high budget AAA games, such as Grand Theft Auto or Metal Gear Solid.

## **WHY C/C++ FROM THINKNEXT ?**

- **Part-Time/Full-Time job offer for each student during training**
- **Free Spoken English, Personality Development and Interview Preparation (HR+Technical Round) classes on daily basis**
- **ThinkNEXT Cloud Campus Advantage not only during training, even after completion of training for lifetime**
- **Highest level of infrastructure in Chandigarh, Mohali, Panchkula with 200+ computers and 16+ labs**

- **Large Display LEDs and Wi-Fi Labs.**
- **Learn from Developers/Industry experts rather than Teachers/Trainers**
- **One-to-One PC and Corporate Environment.**
- **Industrial Training Programmes are designed as per the industry needs to make students industry-ready.**
- **Every student is provided with “Live Projects” mentored by Industry Experts.**



# **C++ Syllabus**

## **C++ Overview**

- **C++ Characteristics**
  - Object-Oriented Terminology**
  - Polymorphism**
  - Object-Oriented Paradigm**
  - Abstract Data Types**
  - I/O Services**
  - Standard Template Library**
- **Functions and Variables**
- **Functions: Declaration**
- **Classes in C++**
- **Friend Function**
- **Operator Overloading**
- **Copy Constructor**
- **Storage Management**
  - Memory Allocation**
    - Dynamic Allocation: new and delete**
- **Inheritance**
- **Constructor and Destructor**
- **Polymorphism**
- **Input and Output in C++ Programs**
- **Standard Streams**
- **Manipulators**
- **Unformatted Input and Output**
- **File Input and Output**
- **Exceptions**

# **ThinkNEXT Technologies Private Limited**

## **Corporate office**

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## **Tele-Support**

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