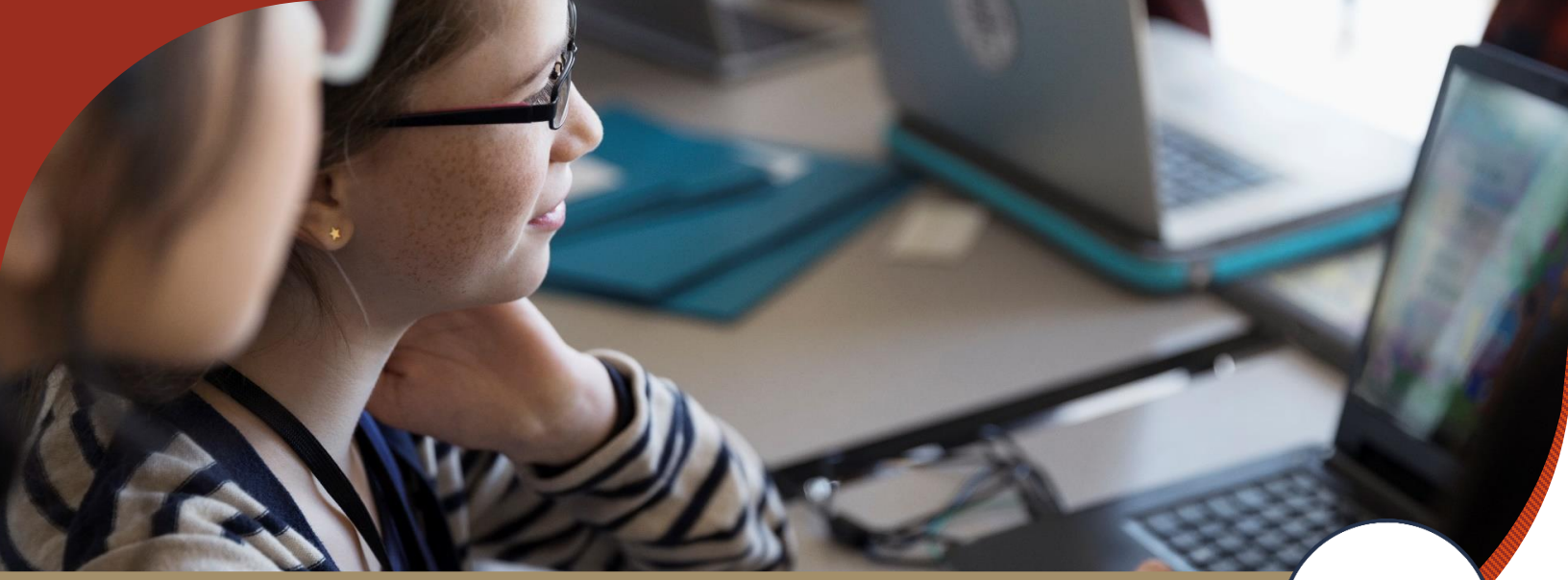

PROFESSIONAL CERTIFICATION TRAINING FOR C ++ PROGRAMMING

About BIT!

A Perfect Platform for Career Transformation… For more than Two-decade, BIT has been a multi-disciplinary education and training Institute in Vadodara, Gujarat meant for Individuals, Professionals, and Corporate. To be at par with the current scenario of the industry, we aim to enhance and upgrade the skills and compatibility of an aspirant. BIT provides an Offline and Online Training platform presenting 500+ courses through Classroom-based and Virtual Class Room Training conducted by expert instructors. We have designed our curriculum considering the rapidly growing demands in the fields associated with Programming, Database, Networking, Data Science, Artificial Intelligence, Robotics, Ethical Hacking, Web Development, Graphic Designing, Software Development, Accounting, Engineering Designing Courses, and many more Computer Courses and Languages.

About C++ Programming

C++ is a MUST for students and working professionals to become a great Software Engineer. C++ is very close to hardware, so you get a chance to work at a low level which gives you lot of control in terms of memory management, better performance and finally a robust software development.

C++ programming gives you a clear understanding about Object Oriented Programming. You will understand low level implementation of polymorphism when you will implement virtual tables and virtual table pointers, or dynamic type identification.

C++ is one of the every green programming languages and loved by millions of software developers.

C++ is the most widely used programming languages in application and system programming. So you can choose your area of interest of software development.

C++ really teaches you the difference between compiler, linker and loader, different data types, storage classes, variable types their scopes etc.

Date	Lecture Details	Attendance
	Lecture - 1 Overview, Environment Setup and Basic Syntax	
	• Introduction to C++	
	• OOPs paradigm	
	• Basic Concept of OOP	
	• Objects	
	• class	
	• Data abstraction and encapsulations	
	• Inheritance	
	• Polymorphism	
	• Dynamic Binding	
	• Benefits of OOP	
	• OOP Language	
	• Application of OOPS	
	• Different Between C& C++	
	• Explain Structure of C++	
	• Program Structure	
	• C++ Statement	
	• Compiling and Linking	
	• Programs	
	• Practical Exercise	
	Lecture - 2 Data Types, Variable Types and Variable Scope	
	• Keywords	
	• Identifiers	
	• Constants	
	• Basic Data Types	
	• User Defined Data type	
	• Derived Data Types	
	• Symbolic Constants	
	• Type Compatibility	
	• Declaration of variables	
	• Dynamic Initialization of Variables	
	• Operator in C++	
	• Scope Resolution Operator	
	• Memory	
	• Practical Exercise	

Date	if..else	Attendance
	Lecture - 3 Variable Scope and Storage classes	
	• Control Structure:if	
	• do..while	
	• Storage Classes	
	• Practical Exercise	
	• **Lecture - 4 Functions and References**	
	• Introduction to Function	
	• Main()	
	• Function Prototyping`	
	• Looping in C++	
	• Practical Exercise	
	Lecture - 5 Functions, References and Overloading (Operator & Function)	
	• Introduction to Function	
	• Main()	
	• Function Prototyping	
	• Looping in C++	
	• Inline Functions	
	• Default Arguments	
	• Recursion	
	• Function Overloading	
	• Math Library Function	
	• Practical Exercise	
	Lecture - 6 Classes and Objects	
	• Class	
	• Specifying Class	
	• Defining Member Functions	
	• Private Member Functions	
	• Inside class function implementation	
	• Outside class function implementation	
	• Static Member Functions	
	• Array of Objects	
	• Object as Function Arguments	
	• Friend Functions	
	• Returning Objects	
	• Array Within a Class	
	• Static Data Members	
	• Constructors Introduction	
	• Constructor Characteristics	
	• Default constructor	

Date	Parameterized Constructors	Attendance
	• Multiple Constructors in class	
	• Overloading Constructors	
	• Dynamic Initialization of Objects	
	• Copy Constructor	
	• Dynamic Constructors	
	• Destructors	
	• Constructing two Dimensional Arrays	
	• Programs	
	• Practical Exercise	
	Lecture - 7 Overloading (Operator and Function)	
	• Defining Operator Overloading	
	• Overloading Unary Operators,	
	• Programs	
	• Overloading Binary Operators	
	• Overloading Binary Operator Using Friend	
	• Practical Exercise	
	• Storage Classes	
	• Manipulations of Strings Using Operators	
	• Type Conversions	
	• Programs	
	• Practical Exercise	
	Lecture - 8 Inheritance	
	• Inheritance: Introduction	
	• Defining Derived Class	
	• Single Inheritance	
	• Making Private Member Inheritance	
	• Data Encapsulation	
	• Single Inheritance	
	• Multilevel Inheritance	
	• Multiple Inheritance	
	• Hierarchical Inheritance	
	• Hybrid Inheritance	
	• Practical Exercise	
	Lecture - 9 Polymorphism	
	• Virtual Base Classes	
	• Abstract Class	
	• Constructors in Derived Class	
	• Polymorphisms	
	• Interface	

Date	Runtime Polymorphism	Attendance
	• Pure Virtual Functions	
	• Programs, Compile time Polymorphisms	
	• Practical Exercise	
	Lecture - 10 Files and Streams	
	• Introduction to Streams	
	• Unformatted I/O Operation	
	• Formatted Console I/O Operations : width()	
	precision()fill()	
	• Manipulation	
	• Working with File	
	• Working with single file	
	• read & write data using write() and read() function	
	• Practical	
	• Working with multiple file	
	• Updating File	
	• Error Handling During File Operations	
	• Command Line Arguments	
	• Practical Exercise	
	Lecture - 11 Exception Handling and Namespacing	
	• Introduction to Exceptions	
	• Exception Handling Mechanism	
	• Practical Exercise	
	Lecture - 12 Data Abstraction, Data Encapsulation and Interfaces.	
	• Data Abstraction	
	• Data Encapsulation	
	• Interface	
	• Practical Exercise	
	• Lecture-15 Practical Exercise	
	• Practical Exercise	
	• Doubt Session	

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9327219987

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