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Empowering Minds, Transforming Futures

Introduction to Programming in C++

Learn the basics of programming in C++ as a beginner or student. Understand the fundamentals of coding and how to apply them in real-world scenarios. Programming in C++ is a valuable skill with a wide range of applications, making it an essential skill in today's digital age.

What you'll learn:

- Basics of programming in C++
- Writing and executing C++ programs
- Understanding data types, variables, and operators in C++

Skills you'll gain:

- Proficiency in C++ programming
- Problem-solving skills using coding logic
- Ability to create and execute C++ programs

Detailed Course Outline:

1. **Introduction to C++ Programming**
   - **Overview of C++ and its importance**
   - **Setting up the development environment**
   - **Creating your first C++ program**
2. **Data Types and Variables**
   - **Understanding data types in C++**
   - **Declaring and initializing variables**
   - **Using variables in C++ programs**
3. **Operators and Expressions**
   - **Arithmetic, relational, and logical operators**

- Operator precedence and associativity
- Using expressions in C++ programs

4. **Control Flow Statements**
   - Conditional statements (if, else if, else)
   - Loops (for, while, do-while)
   - Break and continue statements

5. **Functions in C++**
   - Basics of functions
   - Function prototypes and definition
   - Passing parameters and returning values

6. **Arrays and Strings**
   - Declaring and initializing arrays
   - Processing arrays in C++
   - Working with string literals and functions

7. **Pointers and Dynamic Memory Allocation**
   - Understanding pointers and addresses
   - Dynamic memory allocation in C++
   - Memory management and deallocation

8. **Object-Oriented Programming Basics**
   - Introduction to classes and objects
   - Encapsulation, inheritance, and polymorphism
   - Implementing OOP concepts in C++

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Course Title : Certificate in C++ Programming Language

Course Duration : 3 Months (Min. as per student's performance)

Course Fee : Rs. 5999/-