



Param computers

Empowering Minds, Transforming Futures

Mastering Core Java for Professionals

This course is designed for professionals aiming to deepen their understanding and enhance their skills in Core Java programming. Core Java serves as the foundation for many applications and is a crucial language in the software development industry. By mastering Core Java, professionals can expand their career opportunities and build robust applications efficiently.

What you'll learn:

- Understanding the fundamentals of Core Java programming
- Implementing object-oriented concepts effectively
- Developing applications using Core Java
- Troubleshooting and debugging Java code
- Applying best practices in Java programming

Skills you'll gain:

- Strong foundation in Core Java programming
- Proficiency in object-oriented programming
- Ability to develop Java applications
- Debugging and troubleshooting skills
- Knowledge of industry best practices in Java programming

Detailed Course Outline:

Module 1: Introduction to Core Java

- Understanding Java programming language
- Setting up the development environment
- Writing and executing a basic Java program

Module 2: Java Basics

- Data types and variables
- Operators and expressions
- Control flow statements

Module 3: Object-Oriented Programming

- **Classes and objects**
- **Inheritance and polymorphism**
- **Abstraction and encapsulation**

Module 4: Exception Handling

- **Handling exceptions in Java**
- **Using try-catch blocks**
- **Throwing custom exceptions**

Module 5: Java Collections Framework

- **Working with collections**
- **List, Set, Map interfaces**
- **Iterators and comparators**

Module 6: File Handling in Java

- **Reading and writing files**
- **Using streams for file operations**
- **Handling file exceptions**

Module 7: Multithreading

- **Basics of multithreading**
- **Synchronization and thread safety**
- **Implementing concurrent programming**

Module 8: Java Best Practices

- **Coding standards and conventions**
- **Efficient memory management**
- **Optimizing Java applications**

Course Title : Certificate in Core Java

Course Duration : 6 Months

Course Fee : Rs. 14999/-