



Java Programming Language Course Content

Course Name: Programming in Java

Course Duration: 80 hours (40 lectures)

Topics Covered:

[Object Oriented Programming in Java]

- ❖ **Session 1: Basic Object Oriented Programming Concepts**
- ❖ **Session 2: Classes and Objects**
- ❖ **Session 3: Working with Access Modifiers**
- ❖ **Session 4: Overloading Concepts in Java**
- ❖ **Session 5: Inheritance Concepts in Java**
- ❖ **Session 6: Polymorphism in Java**

[Core Java]

- ❖ **Session 1: Introduction To Java**
- ❖ **Session 2: Abstract Windowing Toolkit (AWT)**
- ❖ **Session 3: Working with Frames, Panels and Applets**
- ❖ **Session 4: Working with Layout Managers**
- ❖ **Session 5: Exception handling techniques in Java**
- ❖ **Session 6: Introduction To Threads**
- ❖ **Session 7: Multithreading and Garbage Collection**
- ❖ **Session 8: Introduction to Packages**
- ❖ **Session 9: Working with Java.Util / Java.IO packages**
- ❖ **Session 10: Basics Of JDBC concepts**

[Advanced Java]

- ❖ **Session 1: Working with Swing [Part 1]**
- ❖ **Session 2: Working with Swing [Part 2]**
- ❖ **Session 3: Advanced JDBC concepts**
- ❖ **Session 4: Networking in Java**
- ❖ **Session 5: Remote Method Invocation (RMI)**
- ❖ **Session 6: Introduction To Servlets**
- ❖ **Session 7: Java Beans**
- ❖ **Session 8: Java Security**

