



Advanced Java™

★ About Java Programming ★

Java is an Object Oriented, General, Multi-Purpose and one of the most trending programming language. Java evolved in year 1995 and till now has always topped the Tiobe Index. Although many new technologies are eveloved but more than 9000 companies still rely on Java Programming including companies such as Airbnb, Uber, Netflix, Spotify, Amazon etc. A senior Java Developer gets a salary of around 10 lakhs p.a.

★ Whom is this course for? ★

- ✓ Professionals seeking Job in IT Industry. This course helps to get clear idea about ample of programming concepts and makes you confident for Job Interviews.
- ✓ Students seeking Diploma/Degree in Engineering and have Java as a part of their syllabus.
- ✓ Any student curious to gain practical knowledge on programming with Hands-on training.

★ Prerequisites ★

- ✓ Knowledge of Core Java is compulsory needed.
- ✓ Imagination Power should be strong

★ Syllabus ★

1. Abstract Window Toolkit (AWT)

 6 hrs

- 1.1 AWT Component
- 1.2 Windows Program and Applet.
- 1.3 AWT Controls
- 1.4 AWT Layout Manager

2. Swings

 8 hrs

- 2.1 Introduction to Swings.
- 2.2 Swing Components
- 2.3 MVC Architecture

3. Event Handling

 12 hrs

- 3.1 Event Model
- 3.2 Event Classes
- 3.3 Adapter Classes
- 3.4 Inner Classes
- 3.5 Event Listener Interfaces

4. Basics of Servlets

 12 hrs

- 4.1 Basics of Web.
- 4.2 Servlet API and Interfaces.
- 4.3 Generic Servlet and HTTP Servlet.
- 4.4 Servlet Life Cycle.
- 4.5 Apache Tomcat Server.
- 4.6 Servlet in Eclipse, Netbeans.

5. Derived Constructs of Servlets

 8 hrs

- 5.1 Servlet Request.
- 5.2 Servlet Collaboration.
- 5.3 Servlet Configuration.
- 5.4 Servlet Context.

6. Interacting with Database

 8 hrs

- 6.1 Introduction to JDBC, ODBC.
- 6.2 JDBC Architecture.
- 6.3 Types of JDBC Drivers.
- 6.4 Driver Interfaces and Manager class.

7. Networking Basics

 8 hrs

- 7.1 Socket Overview.
- 7.2 Java and the Net.
- 7.3 InetAddress.
- 7.4 TCP/IP Client Socket.
- 7.5 URL connection.
- 7.6 Datagrams.

8. Session Tracking

 8 hrs

- 8.1 Cookies.
- 8.2 Hidden Form Field.
- 8.3 URL Rewriting.
- 8.4 HTTP Session.

9. Filter

 8 hrs

- 9.1 Filter
- 9.2 Authentication Failure
- 9.3 Filter Configuration

- 10.1 Overview of JSP
- 10.2 Life Cycle of JSP
- 10.3 Scripting Elements
- 10.4 Implicit Objects.

★ Final Examination ★

- **Syllabus:** All Modules
- **Marks:** 100 Marks
- **Minimum Passing Marks:** 60
- **Time Limit:** 3 Hours
- **Paper Pattern:** MCQ's + Problem Statements
- **Type of Exam:** Online



★ Internship ★

*Opportunity to work on any of the live ongoing project in Hertzsoft Technologies Pvt. Ltd.
only if candidate clear Final Examination.*

(Offer Letter, Experience Letter & Certificate of Internship Provided)

Hertzsoft Technologies Pvt. Ltd.

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