

## Advance Java Course Details

**Duration: 2 month**

**Pre-requisite :** Oops and Exception handling (Core java)

**Syllabus:**

**hours:**

### **I. JDBC**

**10 hrs**

1. Understanding Class.forName(-)
2. Need of JDBC
3. Types of Jdbc drivers
4. 3 Statement objs (Simple Statement, PreparedStatement, CallableStatement)
5. ResultSet objs
6. Batch Processing/Updation
7. Transaction management
8. Working with diff DB s/ws
9. Working with Dates, BLOB and CLOB vlaues
10. JDBC 3.0 & 4.0 Features
11. Working with Type3 and Type5 jdbc drivers
12. Misc Discussions

### **II. SERVLETS**

**20 hrs**

1. Introduction
2. Web application Architecture
3. Web Server & Containers

4. Http Protocol
5. Web application developement
6. Understanding Servlet api
7. Html-Servlet Communication
8. Servlet Life Cycle
9. Deployment of webapliation in different severes
10. Servlet to DB s/w communcation (with jdbc connection pooling)
11. Servlet to Servlet Communcation(Servlet Chaining)
12. SessionTracking
13. Servlet Filters & wrappers
14. Servlet Listeners
15. File Uploading and Downloading
16. Annotations based servlet programming
17. Web-Security
18. Misc Discussions

### **III. JSP**

**20hrs**

1. Introduction
2. Jsp LifeCycle
3. Jsp Implicit Objects & Scopes
4. Jsp Scripting tags
5. Jsp Directives tags
6. Jsp Actions
  - a.Standard Actions
  - b.Custom Actions
- 7.JSTL

8. understanding model1,mvc1,mvc2 architectures

9. Mini Projects

10. Misc Discussions

## **IV. IDE**

**2hrs**

1. MyEclipse

2. NetBeans

3. Eclipse

## **V. SERVERS**

**3hrs**

1. Tomcat

2. Weblogic

3. GlassFish

4. web shepre

5. Jboss

## **VI. DATABASES**

**2hr**

1. Oracle

2. mysql