

## Advanced Java Syllabus

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### Advanced Java Syllabus

#### 1. JDBC

- Introduction
- Jdbc Architecture
- Types of drivers
- Statements
- ResultSet
  1. Read only ResultSet
  2. Updatable ResultSet
  3. Forward only ResultSet
  4. Scrollable ResultSet
- PreparedStatement
- Connection modes
- Save points
- Batch updation
- Callable statement
- BLOB & CLOB

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### 2. Servlet

- Introduction
- Web application architecture
- Http protocol & Http methods
- Web server & web container
- Protecting and Sharing
- Servlet interface
- Generic servlet
- Http servlet
- Servlet life cycle
- Servlet config
- Servlet context
- Servlet communication
  - A. Servlet-browser communication
    1. SendError
    2. SetHeader
    3. SendRedirect
  
  - B. Web-component communication
    1. Forward
    2. Include

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### C. Servlet-applet communication

#### ➤ Servlet tracking mechanism

1. HttpSession
2. Cookies
3. URL-Rewriting
4. Hidden form fields

#### ➤ Filters and wrappers

#### ➤ Listeners

#### ➤ Web-Security

### **3. JSP**

#### ➤ Introduction

#### ➤ Jsp LifeCycle

#### ➤ Jsp implicit objects & scopes

#### ➤ Jsp Directives

- 1.. page
2. include
3. taglib

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### ➤ Jsp scripting elements

1.. declaratives

2. scriplates

3. expressions

### ➤ Jsp Actions

#### A. Standard Actions

1.. UseBean tag

2. SetProperty tag

3. GetProperty tag

4. include tag

5. forward tag

6. param tag

7. plug-in tag

8. params tag

9. fallback tag

10. directives tag

11. scriplates tag

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### 12. expression tag

#### B. Custom Actions

##### 1. Classic tag

##### 2. Simple tags

- JSTL & tag library

#### 4. IDE

- MyEclipse

#### 5. Servers

- Tomcat
- Weblogic

#### 6. Database

- oracle