

## ADVANCE JAVA

### **Session 1 to 5: JDBC**

✓ Introduction	✓ Statement & ResultSet
✓ JDBC Architecture	✓ PreparedStatement & Connection Modes
✓ Types of Drivers	✓ Save Point & Batch Updates
✓ CallableStatement and BLOB & CLOB	✓ Project Development

### **Session 6: JAVA Mail**

✓ Introduction to JAVA Mail	✓ Configuring JAVA Mail API & sending test mail
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### **Session 7 to 11: Servlet**

✓ Introduction : What and Why?	✓ Web Server & Containers
✓ Web Application Architecture	✓ Http Protocol
✓ Web Application Development	✓ Understanding Servlet Api
✓ Html-Servlet Communication	✓ Servlet Life Cycle
✓ Container Life Cycle	✓ Deployment of web application on server
✓ Servlet to DB communication	✓ Servlet to Servlet communication
✓ Session Tracking: Cookies, Hidden Fields, URL Rewriting, HttpSession	✓ Servlet Filters & wrappers
✓ Servlet Listeners	✓ File Uploading and Downloading
✓ Annotations based servlet programming	✓ Web-Security
✓ Project Development	✓

### **Session 12 to 16: JSP**

✓ Introduction	✓ JSP Lifecycle
✓ JSP Implicit Objects and scopes	✓ JSP Scripting tags
✓ JSP Directive tags	✓ JSP Action: Standard Actions, Custom Actions
✓ JSP Using JavaBeans JSTL	✓ Custom Actions and Tag Libraries in JSP
✓ JSP with AJAX	✓ Understanding MVC architecture
✓ Implement MVC based web application using servlet, JSP, JavaBeans	✓ Session Tracking-Cookies, Hidden form fields, URL Rewriting and HttpSession
✓ Project Development	

### **Session 17 to 21: EJB & RMI**

✓ Overview on the JAVAEE Architecture-1,2,3 & N-tier	✓ The EJB Model
✓ The Services of the Application Server	✓ Developing Session Beans- Stateless Session Beans, Stateful Session Beans, Packaging, Writing
✓ Introduction to RMI	✓ RMI execution flow
✓ RMI with database	✓ Project Development

### **Session 22 to 26: Hibernate**

✓ Hibernate Introduction	✓ Hibernate Architecture
✓ Understanding First Hibernate Application	✓ Hibernate with annotation
✓ Hibernate with web application	✓ Hibernate Generator classes

✓ Hibernate Dialects	✓ Hibernate Configuration & Mapping files
✓ Hibernate relations-One to One, One to Many, Many to One, Many to Many	✓ HQL(Hibernate query language)
<b>Session 27 to 31: Struts</b>	
✓ Introduction: What and Why?	✓ Struts Architecture
✓ Steps to create Struts 2 Application	✓ Understanding Action Class
✓ Understanding struts.xml, web.xml files	✓ Core Components- Interceptors, Action Invocations, Action Interface, ActionSupport Class
✓ Building web pages using Struts 2 and Servlet	✓ Struts with Hibernate
✓ Project Development	✓ Abstract classes
<b>Session 32 to 41 Spring</b>	
✓ Why Spring?	✓ Overview of Spring 3 Architecture
✓ Spring modules overview	✓ Spring MVC Architecture
✓ Understanding Spring 3 Annotations	✓ Spring Applications
✓ Multiple Controller	✓ Request Response
✓ MVC Form example	✓ MVC CRUD example
✓ Deployment of web application using Spring MVC module	✓ Integration of Spring module with Hibernate
✓ Web services using Spring	✓ Project Development
<b>Session 42 Project Development</b>	
✓ Requirement Analysis	✓ Designing Database
✓ Designing Templates	✓ Make your project Dynamic with J2EE
✓ Working with MVC Architecture	✓ Hosting of Project
✓ Working with FTP	✓ Debugging with developer tools of browser
✓ Testing	