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# Advance Java Course Details

By [A1Training\(PT\)](#)

Course Name	Advance Java
Category	Programming
Mode Of Classes	Online/Offline
Demo Classes	At Your Convenience
Training Methodology	20% Theory & 80% Practical
Course Duration	30-35 Hours
Class Availability	Weekdays & Weekends
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## Advance Java Syllabus

### Advance Java

### Servlet

#### Basics of Servlet

- ✓ Servlet: What and Why?
- ✓ Basics of Web
- ✓ Servlet API
- ✓ Servlet Interface
- ✓ GenericServlet
- ✓ HttpServlet
- ✓ Servlet Life Cycle
- ✓ Working with Apache Tomcat Server
- ✓ Steps to create a servlet in Tomcat
- ✓ How servlet works?
- ✓ servlet in Myeclipse
- ✓ servlet in Eclipse
- ✓ servlet in Netbeans

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#### ServletRequest

- ✓ ServletRequest methods
- ✓ Registration example with DB

#### Servlet Collaboration

- ✓ RequestDispatcher
- ✓ sendRedirect

#### ServletConfig

- ✓ ServletConfig methods
- ✓ ServletConfig example

#### ServletContext

- ✓ ServletContext methods
- ✓ ServletContext example

#### Attribute

- ✓ How to set, get and remove example?

#### Session Tracking



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- ✓ Cookies
- ✓ Hidden Form Field
- ✓ URL Rewriting
- ✓ HttpSession

## Event and Listener

## Filter

- ✓ Filter
- ✓ Authentication Filter
- ✓ FilterConfig
- ✓ Useful examples

## ServletInputStream and ServletOutputStream

## Annotation Servlet

## Project Development

## Basics of JSP

- ✓ Life cycle of JSP
- ✓ JSP API
- ✓ JSP in Eclipse and other IDE's

## Scripting elements

- ✓ scriptlet tag
- ✓ expression tag
- ✓ declaration tag

## 9 Implicit Objects

- ✓ out
- ✓ request
- ✓ response
- ✓ config
- ✓ application
- ✓ session
- ✓ pageContext
- ✓ page
- ✓ exception

## Directive Elements

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- ✓ page directive
- ✓ include directive
- ✓ taglib directive

## Exception Handling

## Action Elements

- ✓ jsp:forward
- ✓ jsp:include
- ✓ Bean class
- ✓ jsp:useBean
- ✓ jsp:setProperty & jsp:getProperty
- ✓ Displaying applet in JSP

## Expression Language

## MVC in JSP

## JSTL

## Custom tags

- ✓ Custom Tag : What and Why?
- ✓ Custom Tag API?
- ✓ Custom Tag Example
- ✓ Attributes
- ✓ Iteration
- ✓ Custom URI

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## Project Development in JSP

# JavaMail API

## JavaMail API

- ✓ Sending Email
- ✓ Sending email through Gmail server
- ✓ Receiving Email
- ✓ Sending HTML content

# Design Pattern

## Design Pattern

- ✓ Singleton
- ✓ DAO
- ✓ DTO



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- ✓ MVC
- ✓ Front Controller
- ✓ Factory Method
- ✓ etc.

## JUnit

### JUnit

- ✓ JUnit: What and Why?
- ✓ Types of Testing
- ✓ Annotations used in JUnit
- ✓ Assert class
- ✓ Test Cases

## Maven

### Maven

- ✓ Maven: What and Why?
- ✓ Ant Vs Maven
- ✓ How to install Maven?
- ✓ Maven Repository
- ✓ Understanding pom.xml
- ✓ Maven Example
- ✓ Maven Web App Example
- ✓ Maven using Eclipse

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## Struts 2

### Basics of Struts2

- ✓ Struts : What and Why?
- ✓ Model1 vs Model2
- ✓ Struts2 Features
- ✓ Steps to create Struts2 application
- ✓ Understanding Action class
- ✓ Understanding struts.xml file
- ✓ Struts2 in Eclipse IDE
- ✓ Struts2 in Myeclipse IDE

### Core Components

- ✓ Interceptors
- ✓ ValueStack
- ✓ ActionContext
- ✓ ActionInvocation
- ✓ OGNL

### Struts 2 Architecture



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## Struts2 Action

- ✓ Action Interface
- ✓ ActionSupport class

## Struts2 Configuration

- ✓ multi configuration
- ✓ multi namespace

## Interceptors

- ✓ Custom Interceptor : Life Cycle of Interceptor
- ✓ params interceptor
- ✓ execAndWait interceptor
- ✓ prepare interceptor
- ✓ modelDriven interceptor
- ✓ exception interceptor
- ✓ fileUpload interceptor

## Struts 2 Validation

- ✓ Custom Validation : workflow interceptor
- ✓ Input Validation : validation interceptor
- ✓ Ajax Validation : jsonValidation interceptor

## Aware Interfaces

- ✓ ServletActionContext
- ✓ SessionAware
- ✓ Login and Logout Application
- ✓ ServletContextAware

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## Struts2 with I18N

## Zero Configuration

- ✓ By convention
- ✓ By annotation

## Struts2 with Tiles2

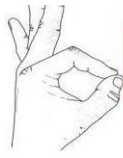
## Hibernate with Struts2

## Spring with Struts2

## Project Development in Struts2

# Working with IDE

## IDE



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- ✓ Eclipse IDE
- ✓ Netbeans IDE
- ✓ Myeclipse IDE

## Working with Servers

### Servers

- ✓ Apache Tomcat
- ✓ Glassfish Server
- ✓ JBoss Server
- ✓ Weblogic Server

## EJB 3

### Introduction to JavaEE

- ✓ The Need for JavaEE.
- ✓ Overview on the JavaEE Architecture
- ✓ 1 tier
- ✓ 2 tier
- ✓ 3 tier
- ✓ N tier
- ✓ JavaEE Key Standards

### Introduction to EJB3

- ✓ The EJB Model
- ✓ Key Services of the Application Server

### Developing Session Beans

- ✓ Stateless Session Beans
- ✓ Stateful Session Beans
- ✓ Packaging
- ✓ Writing Clients

### Using Dependency Injection

- ✓ No More JNDI
- ✓ Injection of EJBContext

### JMS

- ✓ JMS Overview
- ✓ JMS Messaging Domains
- ✓ Example of JMS using Queue
- ✓ Example of JMS using Topic

### Message Driven Beans

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## Persistence Introduction to JPA

- ✓ Object Relational Mapping
- ✓ Mapping configurations
- ✓ Embedded Objects
- ✓ EJBQL

# Web Technology

## HTML 5

- ✓ Introduction to HTML
- ✓ HTML Tags
- ✓ Creating Forms
- ✓ Creating tables
- ✓ Managing home page

## CSS

- ✓ Introduction to CSS
- ✓ Three ways to use CSS
- ✓ CSS Properties
- ✓ Designing website
- ✓ Working with Templates

## Javascript

- ✓ Introduction to Javascript
- ✓ Three ways to use Javascript
- ✓ Working with events
- ✓ Client-side Validation

## JQuery

- ✓ Introduction to JQuery
- ✓ Validation using JQuery
- ✓ JQuery Forms
- ✓ JQuery Examples

## AJAX

- ✓ Introduction to AJAX
- ✓ Servlet and JSP with AJAX
- ✓ Interacting with database

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