

# Syllabus of Advance Java

(HTML, CSS , Bootstrap , Javascript , AngularJS , Servlets , JSP & MySQL)

## HTML

- ✚ Introduction of different Web Technology
- ✚ HTML Elements
- ✚ HTML Attributes
- ✚ HTML Headings
- ✚ HTML Paragraphs
- ✚ HTML Formatting
- ✚ HTML Fonts
- ✚ HTML Styles
- ✚ HTML Links
- ✚ HTML Images
- ✚ HTML Tables
- ✚ HTML Lists
- ✚ HTML Forms
- ✚ HTML Iframe
- ✚ HTML Layout
- ✚ HTML Doctypes
- ✚ HTML Head
- ✚ HTML Meta
- ✚ HTML Scripts
- ✚ HTML Media
- ✚ HTML Audio
- ✚ HTML Object
- ✚ HTML Video
- ✚ HTML YouTube
- ✚ HTML Media Tags

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- + HTML 5 : New Input Types • New Attributes • Form Validation • Browser Support Audio and Video • The State of Web Audio And Video
- + HTML 5 Using A Canvas • Context And Coordinates • Drawing Shapes • Working With Paths o Drawing Straight Lines o Drawing Circles Or Arcs • Drawing Text • Drawing Images • Working with pixel



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# CSS

- ✚ CSS Introduction
- ✚ CSS Syntax
- ✚ CSS Id & Class
- ✚ CSS Styling
- ✚ Styling Backgrounds
- ✚ Styling Text
- ✚ Styling Fonts
- ✚ Styling Links
- ✚ Styling Lists
- ✚ Styling Tables
- ✚ CSS Box Model
- ✚ CSS Border
- ✚ CSS Outline
- ✚ CSS Margin
- ✚ CSS Padding
- ✚ CSS Advanced
- ✚ CSS Grouping/Nesting
- ✚ CSS Dimension
- ✚ CSS Display
- ✚ CSS Positioning and CSS Floating
- ✚ CSS Align
- ✚ CSS Navigation Bar
- ✚ CSS Image Gallery
- ✚ CSS Image Opacity
- ✚ CSS Media Types

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## Bootstrap

- ✚ Introduction to Bootstrap
- ✚ Bootstrap Introduction
- ✚ Bootstrap 4 Grid
- ✚ Bootstrap Typography
- ✚ Bootstrap 4 Heading
- ✚ Bootstrap 4 <mark>
- ✚ Bootstrap 4 Abbreviations<abbr>
- ✚ Bootstrap 4 Blockquotes
- ✚ Bootstrap 4 Description Lists<dl>
- ✚ Bootstrap Table
- ✚ Bootstrap Images
- ✚ Bootstrap Alert
- ✚ Bootstrap Buttons

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## Javascript

- ✦ Variable Naming Rules and JavaScript Data Types
- ✦ Expressions and Operators
- ✦ Flow Control
- ✦ Objects and Arrays
- ✦ Defining Functions and Methods
- ✦ Constructors and Inheritance
- ✦ Pattern Matching with Regular Expressions
- ✦ JavaScript in Browsers
- ✦ The Document Object Model (DOM)
- ✦ How to Get Input and Output
- ✦ Managing Web Page Styles using JavaScript and CSS
- ✦ Handling Web Page Events
- ✦ How to Script Tables
- ✦ How to Script Forms
- ✦ Introduction to Ajax

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## AngularJS

- AngularJS Intro
- AngularJS Expressions
- AngularJS Modules
- AngularJS Directives
- AngularJS Model
- AngularJS Data Binding
- AngularJS Controllers
- AngularJS Scopes
- AngularJS Filters
- AngularJS Services
- AngularJS Http
- AngularJS Tables
- AngularJS Select
- AngularJS DOM
- AngularJS Events
- AngularJS Forms
- AngularJS Validation
- AngularJS Includes
- AngularJS Animations
- AngularJS Routing

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## Servlets

- ✦ 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?
- ✦ ServletRequest
- ✦ ServletRequest methods
- ✦ Registration example with DB
- ✦ Servlet Collaboration
- ✦ RequestDispatcher
- ✦ sendRedirect
- ✦ ServletConfig and methods
- ✦ ServletContext and methods
- ✦ How to set, get and remove example?
- ✦ Session Tracking
- ✦ Cookies
- ✦ Hidden Form Field
- ✦ HttpSession
- ✦ Event and Listener
- ✦ Filter
- ✦ ServletInputStream and ServletOutputStream

# JSP

- ✚ 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
  - page directive
  - include directive
  - taglib directive

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## MySQL

- ✚ Introduction to MySQL
- ✚ Designing Databases
- ✚ Basic SQL
- ✚ Database Structures
- ✚ Doing Advanced Queries
- ✚ Advanced MySQL Concepts
- ✚ Managing Users and Privileges
- ✚ Backing Up and Restoring MySQL Databases



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