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### **Course: Java Course**

Duration: 100 Hrs (Changeable) | Fees: Individual / Batch

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- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
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### Syllabus on the Next Page ..

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#### Module 1: Basics of Java

- \* Introduction
- \* History
- \* Features of Java
- \* Types of Java Application
- \* Difference between JVM, JRE and JDK
- \* Simple Java Program
- \* Variables and Data types
- \* Methods-Declaration, definition and Calling
- \* Packages
- \* Access modifiers
- \* Reading from Console using Scanner
- # Java Arrays
- \* Operators and Operator precedence
- \* Conditional and Looping Statements
- \* Basic Java Programs

#### Module 2: String Handling in Java

- \* String class Introduction
- \* Immutable String
- \* Methods of String Class
- \* String Comparison
- String Concatenation
- \* String Buffer Class

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- \* String Builder Class
- \* Mutable String
- \* toString method

#### Module 3: Wrapper Classes

- \* Wrapper classes
- \* Autoboxing
- \* Unboxing

#### Module 4: OOPS Concepts

- \* OOPs Concepts Introduction
- \* Object and class
- \* Static keyword
- \* Constructor
- \* this keyword
- \* Inheritance
- \* Aggregation and Composition
- \* super Keyword
- \* Interface
- \* Polymorphism

#### Module 5: Exception Handling

- \* Exception Handling Introduction
- \* try and catch block
- \* Multiple catch block

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- \* Nested try
- \* finally block
- \* throw keyword
- \* throws keyword
- \* Exception Handling with Method Overriding
- \* Custom Exception

#### Module 6: Multithreading

- \* Multi threading Introduction
- \* Multi threading vs Multiprocessing
- \* Life Cycle of a Thread
- \* Creating a Thread
- \* Thread Class
- \* Runnable Interface
- \* Thread class methods
- \* Thread Scheduler
- \* Thread Priority
- \* Daemon Thread
- \* Thread Pooling
- \* Thread Group
- \* Performing multiple task by multiple thread

#### Module 7: Synchronization

\* What is Synchronization and Why?

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- \* Synchronized method
- \* Synchronized block
- \* Static synchronization
- \* Deadlock

#### Module 8: Garbage Collection

- \* What is garbage collection?
- \* finalize method

#### Module 9: AWT and Event Handling

- \* AWT Controls
- \* Event Handling by 3 ways
- \* Event classes and Listener Interfaces
- \* Adapter classes

#### Module 10: Layout Managers

- \* Basics of Swing
- \* Swing features
- \* Advantages of swing over AWT
- \* Swing Components
- \* Digital Watch
- \* Graphics in swing
- \* Displaying Image
- \* Open Dialog Box
- \* Drawing paintings

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\* Creating applications

#### Module 11: Applet

- \* Applet features
- \* Life Cycle of Applet
- \* Graphics in Applet
- \* Displaying image in Applet
- \* Animation in Applet
- \* Event Handling in Applet
- ✤ J Applet class
- \* Painting in Applet
- \* Creating Animations

#### Module 12: Collection

- \* Collection Framework
- \* Array List class
- Linked List class
- \* List Iterator interface
- # Hash Set class
- \* Linked Hash Set class
- \* Tree Set class
- \* Priority Queue class
- \* Map interface
- Hash Map class

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- \* Linked Hash Map class
- \* Tree Map class
- \* Hash table class

#### **Module 13: Java Updated Features**

- \* Functional Interface and Lambda Expression
- \* Java Stream API for Bulk Data Operations on Collections
- \* Java Time API

#### Module 14: SQL

- \* Introduction
- \* Basic SQL Queries
- \* DDL,DML and DCL
- \* Aggregation in SQL
- # Joining tables
- Subqueries

#### Module 15: JDBC

- \* JDBC Drivers
- \* Steps to connect to the database
- \* Connectivity with Oracle, MySQL and Access
- \* Driver Manager
- \* Connection interface
- Statement interface
- Result Set interface

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- \* Prepared Statement
- \* JDBC New Features
- \* Mini Project using swing and JDBC

#### Module 16: Web Technology

- \* HTML 5
- \* Introduction to HTML
- ✤ HTML Tags
- # Lists
- \* Forms creation
- \* Creating tables
- \* Managing home page
- \* CSS
- \* Introduction to CSS
- \* Three ways to use CSS
- \* CSS selectors
- \* CSS Properties
- \* Designing website
- # JavaScript
- \* Introduction to JavaScript
- \* Syntax
- \* Three ways to use JavaScript
- \* Variables

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- \* Data types
- \* Operators
- \* Conditional and Looping Statements
- \* Functions
- \* Working with events
- \* Client-side Validation
- ✤ jQuery
- \* Introduction to jQuery
- # jQuery syntax
- \* Example program
- \* jQuery selectors
- # jQuery Effects
- \* jQuery Events
- \* Validation using jQuery
- \* jQuery Forms
- \* jQuery Examples
- \* AJAX
- Introduction to AJAX
- \* Servlet and JSP with AJAX
- \* Interacting with database

#### Module 17: Server Side Programming

\* Servlet

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- \* Servlet introduction
- \* Basics of Web
- \* Servlet vs CGI
- \* Servlet API
- \* Servlet Interface
- \* Generic Servlet
- \* Http Servlet
- \* Servlet Life Cycle
- \* How servlet works?
- \* Servlet Request
- \* Servlet Request methods
- \* Registration example with DB
- \* Request Dispatcher
- \* send Redirect
- \* Servlet Config
- \* Servlet Config methods
- \* Attribute
- \* Session Tracking
- \* URL Rewriting
- # HTTP Session
- # JSP
- \* Basics of JSP

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- \* Life cycle of JSP
- \* JSP API
- \* Scripting elements
- \* scriptlet tag
- \* expression tag
- \* declaration tag
- \* 9 Implicit Objects
- \* Directive Elements
- \* Exception Handling
- \* Action Elements
- \* Expression Language
- \* MVC in JSP
- \* JSTL
- \* Custom tags
- \* Interacting with database
- \* Project Development in JSP

#### Module 18: Hibernate

- \* Hibernate Configuration using XML and annotation.
- \* Hibernate CRUD operation
- \* Hibernate Query Language
- \* Mapping One to One
- \* One to many

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- \* Many to one
- \* Many to Many
- \* Fetching types

#### Module 19: Spring Framework

- \* Basics of Spring
- \* Spring with ORM
- \* Spring 3 MVC
- \* Login and Logout Application
- \* CRUD Functions
- \* Main Project
- \* Spring Boot

(Click on Course for more details)

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### - Thank You -

N.B:This syllabus is not final and can be customized as per requirements / updates.

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