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Course: Java J2EE

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

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of **over 250 industry experts**. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. **We offer 100% placement support through JobsNEAR.in**

Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, SalesForce, Sap
- Microsoft Excel
- Ethical Hacking



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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