



# ZUKUN

THE FUTURE

IT TRAINING INSTITUTE

# JAVA FULL STACK DEVELOPMENT SYLLABUS



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## Our Promises

### Monthly Guaranteed Interviews

Get interview opportunities every month until you're placed.



### Job Portal Optimization

Boost your profile visibility on top job portals



### LinkedIn Optimization

Improve your LinkedIn profile to attract recruiters.



### Monthly Mock Interviews

Practice with mock interviews after every major module.



### Weekly Tests

Track your progress with weekly skill assessments.



### Saturday Aptitude & Communication Classes

Sharpen your aptitude and speaking skills every Saturday.



### Sunday Industry Expert Sessions

Learn from professionals every Sunday.



### Complete Placement Support

We guide you from day one till you get placed.



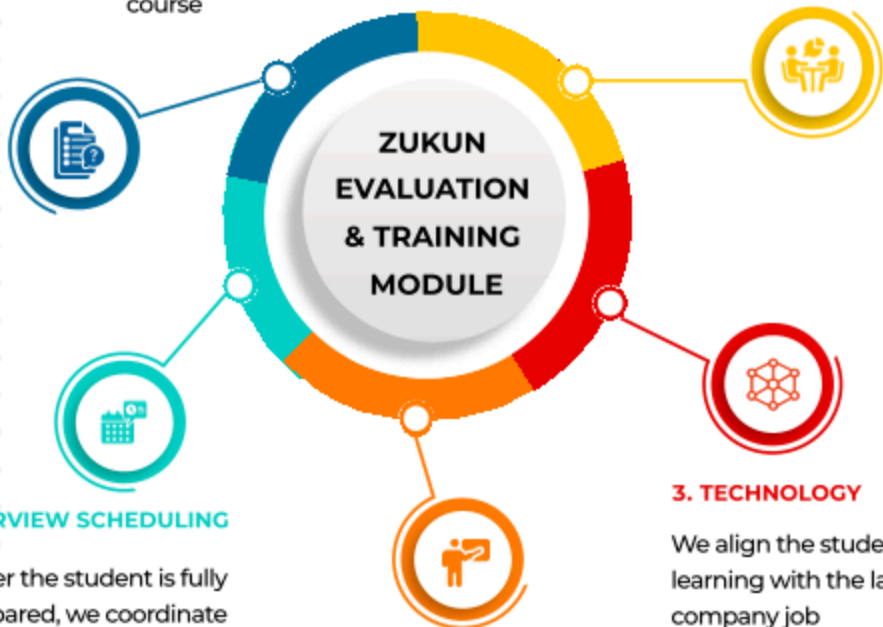
## Training Module

### 1. STUDENT

Enquiry's about the course

### 2. CONSULTANT

Our expert consultants recommend courses based on the student's degree and career goals.



### 5. INTERVIEW SCHEDULING

After the student is fully prepared, we coordinate technical and HR interviews with leading companies. The process will start after the 1st month

### 3. TECHNOLOGY

We align the student's learning with the latest company job descriptions and industry demands.

### 4. APTITUDE & COMMUNICATION

Students are trained in essential soft skills, including aptitude, English communication, and presentation skills.



## Placement Module



At Zukun Academy, the journey doesn't end with learning—it begins with launching your career. Our Placement Module is designed to help students confidently step into the job market with the right skills and support. From building powerful resumes and practicing with mock interviews to understanding real-time job roles and company

expectations, we ensure you're job-ready from every angle. Students also work on live projects to build their portfolios, receive one-on-one career counselling, and gain direct access to placement drives through our network of hiring partners. We focus on more than just training, we're with you until you get placed.



# JAVA FULL STACK

## MODULE 01: FRONT END - HTML

- Introduction to HTML
- Basic Structure of HTML
- HTML Editors
- HTML Tags Paragraphs, Headings, and Text Formatting Tags
- HTML Lists
- HTML Images
- HTML Tables
- HTML Forms
- HTML Media

## MODULE 02: CSS

- Introduction to CSS
- Types of CSS CSS
- Properties Selectors and Values
- Applying CSS to HTML
- CSS color
- CSS Box Model, Margins, Padding,
- Borders
- CSS Text & Font Formats
- CSS Advanced Topics

## MODULE 03: JAVASCRIPT

- Introduction to JavaScript
- How to Apply JavaScript
- Displaying Output in JavaScript
- Understanding JavaScript Synta
- Variables & Data types Operators
- Math and String Manipulations
- Conditional and looping Statements
- Functions Validations
- Events



# JAVA FULL STACK

## MODULE 04: JQUERY

- Introduction to jQuery
- jQuery Features
- jQuery Syntax
- jQuery Selector
- jQuery Libraries
- jQuery Validation
- jQuery Slideshow
- JQuery Dropdown
- jQuery UI
- jQuery Accordions
- jQuery Tabs

## MODULE 05: BOOTSTRAP

- Introduction to Bootstrap
- Bootstrap Setup
- Bootstrap Containers
- Bootstrap Grids
- Bootstrap Tables
- Bootstrap Buttons, Navbars, Alerts
- Bootstrap Carousel
- Bootstrap Forms

## MODULE 06: REACT JS

- React Introduction
- React Essential Features And Syntax
- React Components, Props And State
- Styling Components
- Debugging
- React Apps
- React Component Life Cycle
- React Hooks
- React Component In Details
- HTTP Requests / Ajax Calls
- React Routing V5 And V6



# JAVA FULL STACK

- React Forms And Form Validation
- Deploying React App To The Web
- React Redux
- React Material
- UI Error Handling
- New Features Of React 18
- Unit Testing In React
- Webpack
- Primer Server - Side Rendering With React
- Deploying On Cloud

## MODULE 07: BACKEND - CORE JAVA

- Introduction to JAVA
- What is JDK, JVM & JRE
- Java Conditional Statements
- Switch Statement
- Java Looping
- Structure While & do while Loop For Loop
- Java Arrays & Array Methods
- Java String & String
- Methods OOPS
- Explanation Object & Class
- Pre-Defined Methods
- User-Defined Method
- Method Arguments
- Java Constructors & Destructors
- Inheritance Types of Inheritance Single, Multilevel & Hybrid Inheritance
- Polymorphism Types of Polymorphism
- Overloading & Overriding
- Encapsulation
- Getter & Setter Methods
- Abstuct Classes Interface
- File Handling, Exception Handling



# JAVA FULL STACK

## MODULE 08: ADVANCED JAVA

- JDBC (Java Database Connectivity)
  - Introduction to JDBC
  - Establishing Connection to Database
  - Statement • PreparedStatement
  - CallableStatement
  - ResultSet Interface & Metadata
  - Batch Updates
  - Transaction Management
- Servlet
  - Introduction
  - Developing and Deploying Servlet Apps in Diff Servers using Generic Servlet
  - Developing Servlet
  - ServletRequest & ServletResponse
  - ServletConfig
  - ServletContext
  - HttpServlet
  - HttpServletRequest & HttpServletResponse
  - HTML to Servlet Communication
  - Servlet to DataBase Communication
  - RequestDispatching
  - Redirecting
  - Attributes
  - State and Session Management
  - URL Rewriting
  - Hidden Form Fields
  - Cookies
  - HttpSession
  - Filters
  - Listeners
  - Annotations in Servlet Programming
  - Authentication , Authorization (Security in Servlet Programming)
  - Error Handling in Servlet & Working with Welcome-file



# JAVA FULL STACK

## MODULE 09: JSP

- JSP Predefined Objects
- Request, Response, Out & Sessions Config, Application, Page Context Scripting Tags & Directives @page and @include
- JSTL
- JSTL Tags
- Java Bean
- Action Tags
- Java Bean Application

## MODULE 10: ORACLE

- DB Fundamentals
- RDBMS
- Oracle Introduction
- DDL
- DRL
- DML
- Functions
- Integrity Constraints
- Joins
- Sub Queries
- Transactions
- Views
- Indexes
- PL/SQL
- Error Handling
- Procedures
- Functions
- Triggers



# JAVA FULL STACK

## MODULE 11: SPRING BOOT & MICROSERVICES

- Introduction to Spring Boot
- Building Spring Boot Application
- Rest Annotation with In Memory Database & CRUD Operations
- Rest Annotation with Relation DB
- JPA Repository Concepts
- Actuator Concepts
- Spring Boot Custom Logging
- Spring Boot Profile Components
- Auto Configuration
- Thymleaf Concepts
- Integration with Spring
- Web Spring Boot
- Security Database Concepts
- Core Concepts
- Microservices
- Microservices Design
- Considerations Spring
- Cloud Spring Cloud Config
- Fault Tolerance Concepts
- API Gateway
- Messaging Queue Concepts (CloudBus)
- Swagger API
- Cloud Hosting

## MODULE 12: WITH AI

- AI Fundamentals
- Java API Handling
- Machine Learning Basics
- NLP Basics
- Generative AI
- OpenAI API Integration
- Spring Boot + AI
- AI Full Stack Projects
- Deployment & DevOps





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## Follow us on



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# Thank you

Ready to start your **tech career**?

Join our hands-on courses, get mentored by experts, and  
step into the **IT industry** with confidence.