



JAVA Full Stack Development Syllabus

DURATION – 5 MONTHS

MODE OF TRAINING – OFFLINE/ONLINE



- **Introduction to HTML**
- **Basic HTML Tags**
- **Text Formatting & Styles**
- **Lists**
- **Links & Navigation**
- **Images & Multimedia**
- **Tables**
- **Forms & Input Elements**



HTML5



- **Introduction to HTML5**
- **Semantic Elements**
- **HTML5 Forms & Input Types**
- **Audio & Video**
- **SVG (Scalable Vector Graphics)**
- **Project-1 static website**





CSS

- Introduction to CSS
- Selectors & Combinators
- Box Model
- Colors & Backgrounds
- Typography (Fonts & Text Styling)
- Lists & Tables
- CSS Positioning & Layout



Activate Windows



CSS 3

- **Introduction to CSS 3**
- **Flexbox**
- **Grid Layout**
- **Pseudo classes and Pseudo elements**
- **Transitions & Animations**
- **CSS3 Shadows & Effects**
- **Media Queries & Responsive Design**
- **Advanced CSS Techniques**
- **Project-2 Responsive Website**



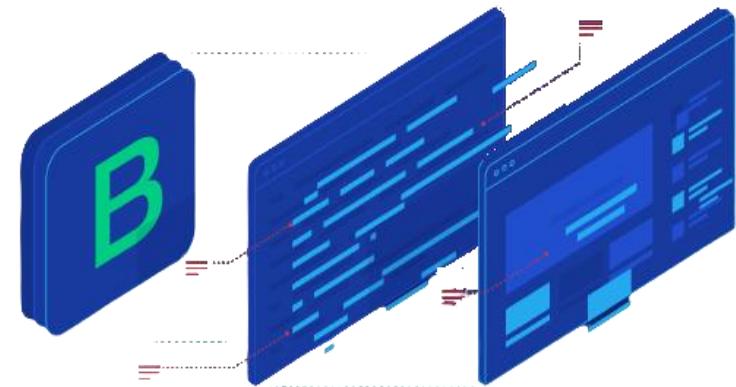
Activate Windows



BOOTSTRAP 4

BOOTSTRAP 4

- Installation Of Bootstrap 4
- Bootstrap Forms
- Bootstrap Containers
- Bootstrap Colors
- Bootstrap Buttons
- Bootstrap Cards
- Bootstrap Dropdowns
- Bootstrap Navbar
- Bootstrap Carousel
- Bootstrap Components
- Bootstrap Grid System
- Project-3 Responsive Website Development

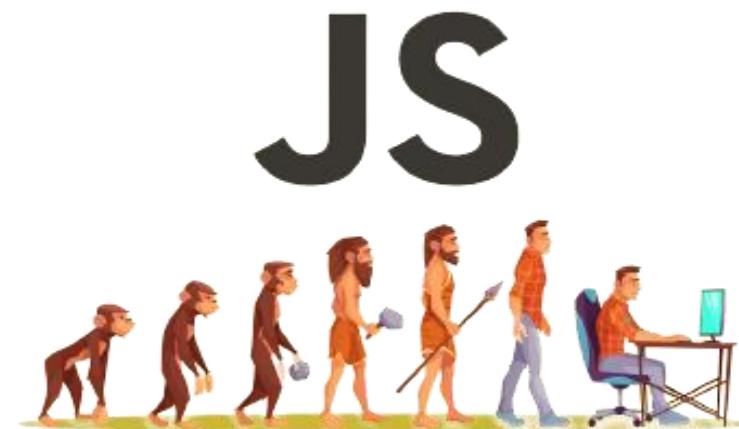




JavaScript



- **Introduction to JavaScript**
- **JavaScript Basics**
- **Control Structures**
- **Functions**
- **Arrays & Objects**
- **DOM Manipulation**
- **Event Handling**
- **ES6+ Features**





Advance Java Script



- **Asynchronous Programming**
- **Closures & Scope**
- **Error Handling**
- **Project-4**



JQuery



- **jQuery Intro**
- **jQuery Syntax**
- **jQuery Selectors**
- **jQuery Effects**
Hide/Show,Fade, Slide ,Animate,stop() ,Callback, Chaining
- **jQuery Get & Set**
- **jQuery Add jQuery & Remove**
- **jQuery CSS Classes & css(),Dimensions**
- **jQuery Traversing**
- **jQuery Traversing, Ancestors, Descendants, Siblings, Filtering**
- **jQuery AJAX**
- **1 Template website**

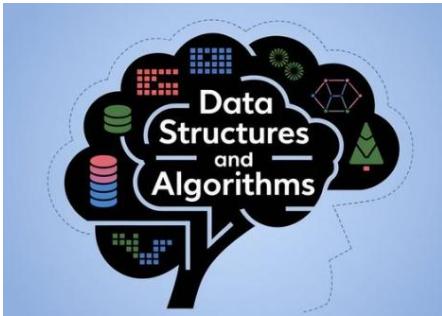


Version Control System



- Introduction to Version Control
- Getting Started with Git
- Git Workflow
- Branching in Git
- Merging and Resolving Conflicts
- Working with GitHub
- Collaboration Workflows
- Advanced Git Commands and Techniques
- Best Practices for Git and GitHub





Data Structures and Algorithms



- Time & Space Complexity
- Recursion
- Math Problem & Algorithm
- Linked List
- Stacks and Queues
- Sorting Algorithms (Bubble, Selection, Insertion, Merge, Quick)
- Searching Algorithms (Binary Search, Linear)



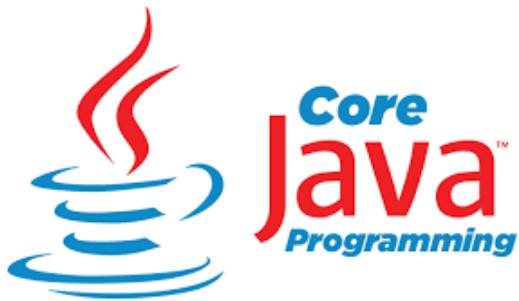


18

Angular 18



- **Introduction to Angular18**
- **Development Setup of Angular**
- **Components in Angular**
- **Data and Event Binding**
- **Structural Directives**
- **Template Driven Forms**
- **API Handling**



Core Java



- Basic of Java
- Feature of Java,JVM
- Control Statement
- Java conversion
- Methods
- Arrays
- Strings
- Exception Handling
- Class & Object
- Inheritance
- Interface & Abstraction
- Polymorphism
- File IO
- Collections
- Swing,AWT,Event
- Lambda function
- Java 8 feature
- Stream API



ADV JAVA



- Java Database Connectivity
- Networking in Java
- Multithreading
- Servlet
- JSP
- Project on Window based Application & Project on Web based Application



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- **Introduction to Hibernate**
 - **Hibernate Configuration**
 - **Hibernate O-R Mapping**
 - **Hibernate using XML & annotation**
 - **Hibernate Concepts**
 - **Manipulating and Querying**
 - **Collection Mapping**
 - **HCQL**
 - **HQL**
 - **NamedQuery**
 - **Integration with Spring**
 - **Transaction and Concurrency**

Spring

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- Introduction
 - Build System
 - Code Structure
 - Spring- Beans
 - Dependencies Injection
 - IOC
 - Annotations
 - Injectors
 - Maven Project
 - Cross Platform Configuration And MGT
 - GIT Integration And Handling
 - Jar Creation
 - SPRING- MVC**
 - Spring MVC Architecture
 - Handler Mapping
 - View Resolver
 - Controller classes
 - Spring MVC Flow
 - Annotation driven Controller
 - Form Processing
 - Autowiring
 - Spring MVC CRUD Operation



Spring Boot



- Spring boot introduction
- Spring boot Annotation
- Configuration using spring boot
- Rest API using spring boot
- CRUD operation using REST API
- Postman tool
- Microservices using REST API
- Project using Spring boot with Hibernate
- Transaction Management
- Spring vs Spring Boot vs Spring MVC
- Spring boot with CLI
- Spring boot Annotations
- Spring boot Dependency Management
- Spring boot Application Properties
- Spring Boot AOP
- Spring boot Caching



SQL



- MySQL Server installation
- Introduction to Basic Database Concepts
- Introduction to SQL Server
- DDL and DML Statements
- Working with Constraints
- Working with Queries (DQL)
- Joins and Set Operations
- Implementing Views
- Working with Stored Procedures and Functions
- Cover 400+ queries

Aptitude

Quantitative Aptitude

- Average
- Percentage
- Profit and Loss
- Simple Interest
- Compound Interest
- Ratio Proportion
- Time and Work
- Time
- Speed
- Distance Number
- System
- Permutation and Combination
- Probability
- Data Interpretation

Logical Reasoning

- Blood Relation
- Direction sense
- Coding and decoding
- Clocks and Calendar
- Cubes and Dices
- Seating arrangement
- Syllogism
- Data sufficiency
- Puzzles
- Miscellaneous



Softskill



- Setting the tone
- Introduction of Be Employable
- Competency Matrix
- Effective Communication
- Presentation skills
- Business Communication
- Attitude + Motivation
- Emotional Intelligence
- Leadership
- Create CV/Resume
- Group Discussion
- Mock Group Discussion
- PI practice
- Virtual Interview
- Industry Knowhow and future, Certifications and action plan

Key Feature

- Trainer with 12+ Years of Experience
- 200 hours of high-quality course
- Best Quality Training
- Live Project Experience
- Demo Lectures are available
- In-depth Course Contents
- 100 % Placement Assistance
- Internship support



Orange Itech Offer You



INTERNSHIP





THANK YOU

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