



JAVA Full Stack Development Syllabus

DURATION – 5 MONTHS

MODE OF TRAINING – OFFLINE/ONLINE



HTML



-
- **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

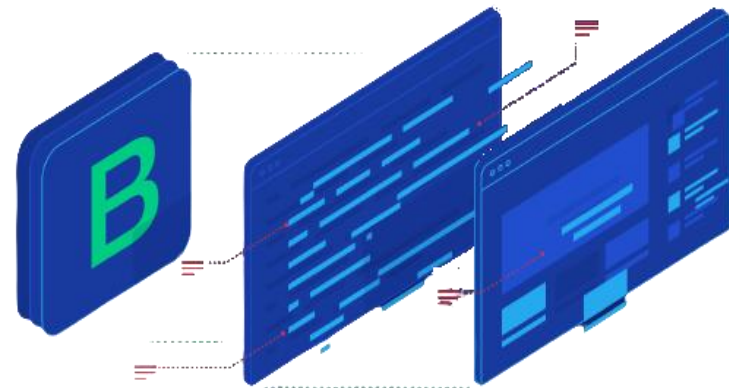


BOOTSTRAP 4



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**

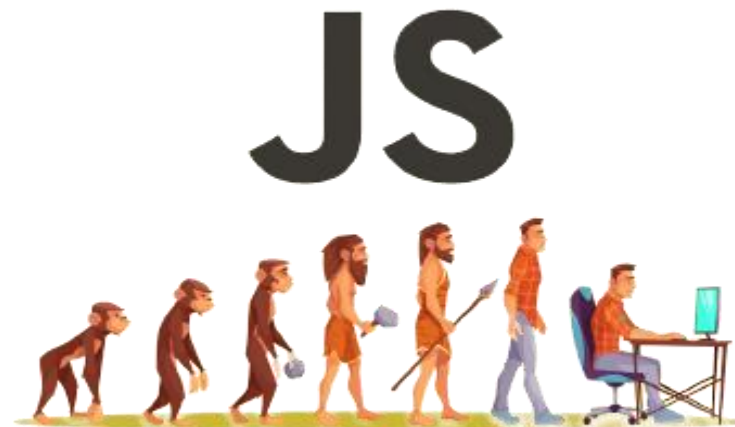




JavaScript



- **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**

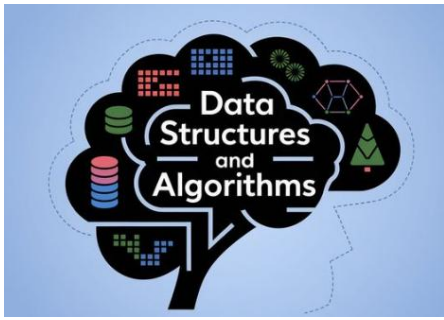


Version Control System



- **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



- **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**
- **Autowriting**
- **Spring MVC CRUD Operation**



-
- **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



THANK YOU

**317,B wing 3rd Floor, Rajdhani Complex,
Near Shankar Maharaj Math, Pune - Satara
Road, Balajinagar, Pune
9975708774/9623922545
website - <http://orangeitech.in>**