



Flutter 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 Stylin**
- **Lists & Tables**
- **CSS Positioning & Layout**





CSS 3



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



Activate Windows

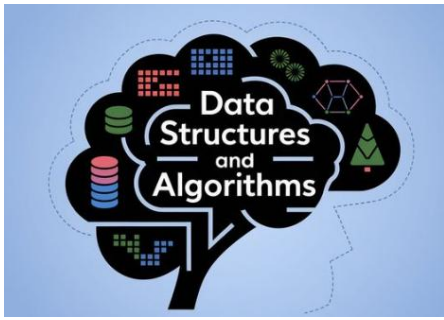


Version Control System



- **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)





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**



Flutter Development



Introduction to Flutter :

- **Features of Flutter**
- **Advantages of Flutter & Disadvantages of Flutter**
- **Flutter Installation - Installation in Windows- Installation in Mac OS**
- **Creating Simple Application in Android Studio**
- **Architecture of Flutter Applications**

Flutter Basics :

- **Widgets**
- **Gestures**
- **Introduction to Dart Programming**
- **Variables and Data types**
- **Decision Making and Loops & Functions**
- **Object Oriented Programming**
- **Introduction to Widgets**
- **Widget Build Visualization**



Flutter Development



Dart Programming :

- **Basic Programming**
- **OOP Concept**
- **Exception Handling**
- **Debugging**

Asynchronous Programming :

- **Futures, Async, Await, Streams**
- **Introduction to Layouts**
- **Type of Layout Widgets**
- **Single Child Widgets**
- **Multiple Child Widgets**
- **Advanced Layout Application**
- **Introduction to Gestures •**
- **Statement Management in Flutter**
- **Ephemeral State Management**
- **Application State ,scoped model , Navigation and Routine**



Flutter Development



UI development :

- **Styles and assets ,fonts**
- **Model API ,Media query**
- **Working with lists and grids in Flutter Implementing**
- **animations in Flutter**
- **Customizing UI with Flutter**
- **drawing and painting Using Flutter packages to enhance UI**

API in Flutter :

- **Introduction to API, package**
- **Types of Packages Using a Dart Package**
- **Develop a Flutter Plugin Package**
- **Accessing Rest API**
- **Basic Concepts**
- **Accessing Product service API**



Flutter Development



Flutter and Firebase :

- **Introduction to Firebase and its features**
- **Integrating Firebase with Flutter apps**
- **Implementing user authentication with Firebase**
- **Authentication Using Firestore for real-time database in**

Testing and Debugging :

- **Writing unit tests for Flutter apps**
- **Debugging Flutter apps using Flutter Dev Tools**
- **Performing integration testing**
- **Flutter Handling errors and exceptions in Flutter**



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Database Concepts :

- **SQLite- Cloud Fire store •**
- **Internalization on Flutter Using intl Package**
- **Testing on Flutter**
- **Types of Testing**
- **Widget Testing**
- **Steps Involved**
- **Working Example-Deployment**
- **Android Application**
- **IOS Application**
- **Development Tools**
- **Widget Sets**
- **Flutter Development with Visual Studio Code- Dart DevTools- Flutter SDK**



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>**