



Flutter 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

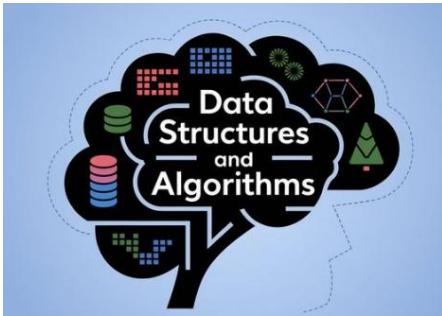


Version Control System



- 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



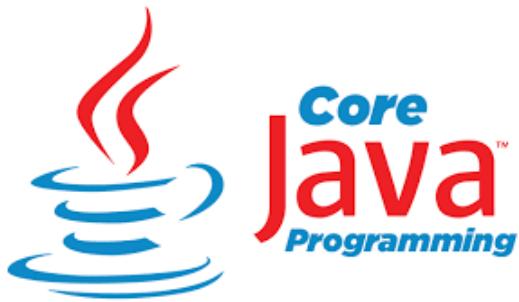


Data Structures and Algorithms



- 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



Flutter Development



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



INTERNSHIP





THANK YOU

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