**Week 1: Basics of Flutter and Dart**

| **Day** | **Task** | **Duration** |
| --- | --- | --- |
| Day 1 | Install Flutter SDK, set up IDE (Android Studio/VSCode) | 2 hours |
| Day 2 | Learn Dart basics: variables, data types, functions, control flow | 2 hours |
| Day 3 | Learn Dart OOP: classes, inheritance, constructors | 2 hours |
| Day 4 | Create a "Hello World" app, understand widget tree | 2 hours |
| Day 5 | Explore basic widgets: Text, Container, Row, Column | 2 hours |
| Day 6 | Build a simple UI (e.g., profile page) | 2 hours |
| Day 7 | Revise and practice Dart/Flutter basics | 2 hours |

**Week 2: Building UIs and Layouts**

| **Day** | **Task** | **Duration** |
| --- | --- | --- |
| Day 8 | Learn layout widgets: Row, Column, Stack, Expanded, Flexible | 2 hours |
| Day 9 | Build a responsive UI using MediaQuery and LayoutBuilder | 2 hours |
| Day 10 | Create a multi-screen app with MaterialApp and Scaffold | 2 hours |
| Day 11 | Practice building complex layouts (e.g., dashboard UI) | 2 hours |
| Day 12 | Explore ListView, GridView, and Card widgets | 2 hours |
| Day 13 | Build a UI with scrolling and multiple sections | 2 hours |
| Day 14 | Revise and improve previous UIs | 2 hours |

**Week 3: State Management**

| **Day** | **Task** | **Duration** |
| --- | --- | --- |
| Day 15 | Learn setState for simple state management | 2 hours |
| Day 16 | Explore Provider package and its basics | 2 hours |
| Day 17 | Build a counter app using Provider | 2 hours |
| Day 18 | Learn about ChangeNotifier and Consumer | 2 hours |
| Day 19 | Build a To-Do app with Provider | 2 hours |
| Day 20 | Explore other state management solutions (e.g., Riverpod, Bloc) | 2 hours |
| Day 21 | Revise and practice state management | 2 hours |

**Week 4: Navigation and Routing**

| **Day** | **Task** | **Duration** |
| --- | --- | --- |
| Day 22 | Learn basic navigation: Navigator.push and Navigator.pop | 2 hours |
| Day 23 | Implement named routes and onGenerateRoute | 2 hours |
| Day 24 | Pass data between screens using constructor arguments | 2 hours |
| Day 25 | Build a multi-screen app with navigation | 2 hours |
| Day 26 | Explore advanced navigation techniques (e.g., nested navigation) | 2 hours |
| Day 27 | Practice navigation with a real-world example (e.g., e-commerce app) | 2 hours |
| Day 28 | Revise and improve navigation skills | 2 hours |

**Week 5: Networking and APIs**

| **Day** | **Task** | **Duration** |
| --- | --- | --- |
| Day 29 | Learn how to make HTTP requests using the http package | 2 hours |
| Day 30 | Parse JSON data and display it in a ListView or GridView | 2 hours |
| Day 31 | Build a simple app that fetches data from a public API (e.g., weather) | 2 hours |
| Day 32 | Handle API errors and loading states | 2 hours |
| Day 33 | Explore advanced API concepts (e.g., pagination, caching) | 2 hours |
| Day 34 | Build an app with multiple API calls (e.g., news app) | 2 hours |
| Day 35 | Revise and improve API integration skills | 2 hours |

**Week 6: Persistence and Local Storage**

| **Day** | **Task** | **Duration** |
| --- | --- | --- |
| Day 36 | Learn shared\_preferences for storing key-value pairs | 2 hours |
| Day 37 | Build a simple app that uses shared\_preferences | 2 hours |
| Day 38 | Learn sqflite for local database storage | 2 hours |
| Day 39 | Build a To-Do app with sqflite | 2 hours |
| Day 40 | Explore other storage options (e.g., Hive, ObjectBox) | 2 hours |
| Day 41 | Build an app with local storage (e.g., notes app) | 2 hours |
| Day 42 | Revise and improve local storage skills | 2 hours |

**Week 7: Advanced Topics**

| **Day** | **Task** | **Duration** |
| --- | --- | --- |
| Day 43 | Learn implicit animations (e.g., AnimatedContainer) | 2 hours |
| Day 44 | Learn explicit animations (e.g., AnimationController) | 2 hours |
| Day 45 | Build a custom animated widget | 2 hours |
| Day 46 | Explore Flutter plugins (e.g., camera, location) | 2 hours |
| Day 47 | Build an app using a plugin (e.g., camera app) | 2 hours |
| Day 48 | Learn about custom painters and canvas | 2 hours |
| Day 49 | Revise and practice advanced topics | 2 hours |

**Week 8: Testing and Debugging**

| **Day** | **Task** | **Duration** |
| --- | --- | --- |
| Day 50 | Write unit tests for a simple app | 2 hours |
| Day 51 | Write widget tests for UI components | 2 hours |
| Day 52 | Write integration tests for a complete app | 2 hours |
| Day 53 | Use Flutter DevTools for debugging | 2 hours |
| Day 54 | Profile app performance using DevTools | 2 hours |
| Day 55 | Test your app on both Android and iOS | 2 hours |
| Day 56 | Revise and improve testing skills | 2 hours |

**Week 9: Build and Deploy**

| **Day** | **Task** | **Duration** |
| --- | --- | --- |
| Day 57 | Build your app for release (flutter build apk or flutter build ios) | 2 hours |
| Day 58 | Learn about app signing for Android and iOS | 2 hours |
| Day 59 | Deploy your app to the Google Play Store | 2 hours |
| Day 60 | Deploy your app to the Apple App Store | 2 hours |
| Day 61 | Learn about CI/CD for Flutter apps | 2 hours |
| Day 62 | Optimize your app for performance and size | 2 hours |
| Day 63 | Revise and improve deployment skills | 2 hours |

**Week 10: Final Project**

| **Day** | **Task** | **Duration** |
| --- | --- | --- |
| Day 64-70 | Plan and build a full-fledged app (e.g., weather app, e-commerce app) | 2 hours/day |
| Day 71 | Test and debug your final project | 2 hours |
| Day 72 | Deploy your final project | 2 hours |