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| **Schedule**  **Week** | **Module Title** | **Learning Unit** |  |
| **Week 1** | **1. Flutter Basic**  **2. Dart Basics:** | **1. Introduction**  **2. command line**  **3. FVM**  **1. Official dart documentation (Dart tour): [https://dart.dev/guides/language/language-tour]**  **2. Null Safety: official documentation:**  **[**[**https://dart.dev/null-safety**](https://dart.dev/null-safety)**]**  **4. Lists**  **5. Maps**  **6. Sets** |  |
| **Week2** | **3. UI Basic**  **4. Basic widgets:** | **Frontend and basic business logic**  **Layout Concept**  **[**[**https://docs.flutter.dev/codelabs/layout-basics**](https://docs.flutter.dev/codelabs/layout-basics)**]**   1. **App Bar** 2. **Card** 3. **Images (network and asset), FadeInImage** 4. **Sized Box** 5. **Text Field** 6. **Divider** 7. **Container** 8. **Padding** 9. **Column and Row** 10. **Expanded and Flexible** 11. **Elevated Button** 12. **List Tile** 13. **List View** 14. **Grid View** 15. **Floating Action Button** 16. **Checkbox** 17. **Radio Button** 18. **Switch** 19. **Bottom Sheet** 20. **Snack Bar** 21. **Simple Dialog** 22. **Data Table** 23. **Circular Progress Indicator** 24. **Linear Progress Indicator** 25. **Slider** |  |
| **Week3** | **Basic Widgets:** | **26. wrap**  **27. Spacer**  **28. Bottom Navigation Bar**  **29. Tab Bar**  **30. Side Menu/ Drawer**  **31. Drop down Button** |  |
| **Week4** | **Basic Widgets:** | **32. Stack, position and alignment**  **33. Text and Rich Text**  **34. Rating**  **35. Inkwell**  **36. Gesturedetector**  **37. Route and navigation**    **37. Align and Center** |  |
| **Week5** | **6. State-Management:**    **7. MVVM Architecture**    **8: Shared Preferences**  **9: Databases**  **(CRUD operation)** | **1. Basics**  **2. set state**  **1:Basics**  **2: Provider**  **1:Basic**  **2: counter app example**  **SQFLITE**   * **SQL Queries** * **CREATE tables** * **SELECT statements** * **WHERE Clause** * **INSERT into** * **DELETE query** * **UPDATE query** * **Data Sorting** * **Functions** |  |
| **Week6** | **10: Firebase**  **11: RESTFUL APIs** | **FIREBASE**  **1. Getting started with Firebase Flutter: [**[**https://firebase.google.com/docs/flutter/setup?platform=ios#available-plugins**](https://firebase.google.com/docs/flutter/setup?platform=ios#available-plugins)**]**  **2: Authentication (Email)**  **[**[**https://firebase.google.com/docs/auth/flutter/start**](https://firebase.google.com/docs/auth/flutter/start)**]**  **3:Firebase Firestore**  **[**[**https://firebase.google.com/docs/firestore/quickstart**](https://firebase.google.com/docs/firestore/quickstart)**]**  **1:POSTMAN**  **2:http:**  **3:json Format**  **4: example app** |  |
| **Week7** | **12: Permissions**  **13:Camera**  **14: Location**  **15: Google Maps** | **1: camera permission**  **2: contacts permission**  **3: location permission**  **1: Camera picture**  **2: image from gallery**    **1: get current location**  **2: get current country name**  **1: google maps settings for Android and IOs**  **2: markers**  **3:current location markers**  **4: circle on map**  **5: calculate distance between two markers** |  |
| **Week8** | **17. Performance**  **18 Deployments** | **1. Android**  **2. iOS** |  |