

## Flutter Syllabus:

### Flutter:

Topics	
	<b>Flutter Basics</b>
1.	Flutter introduction
2.	Why flutter? <ul style="list-style-type: none"> <li>Key difference between native android, mobile app frameworks and flutter</li> </ul>
3.	How to setup flutter environment on your device?
4.	Introduction of stateless and stateful widgets
5.	How to create and run the flutter project?
6.	Design logic in flutter (Child, Children, None)
7.	Introductions of Widgets <ul style="list-style-type: none"> <li>Scaffold</li> <li>Center</li> <li>Row</li> <li>Column</li> <li>Text</li> <li>Richtext</li> <li>Container</li> <li>Cards</li> <li>Padding</li> <li>Align</li> <li>SingleChildScrollView</li> <li>SizedBox</li> <li>Expanded</li> <li>Icons and Images</li> <li>Buttons</li> <li>Gesture Detector</li> <li>Floating</li> <li>ActionButton</li> <li>Snackbar</li> </ul>
8.	Stack
9.	Textfields and events
10.	Forms and Validations
11.	State Management
12.	How to use Radio buttons, Checkbox and Dropdown buttons, Switch?
13.	Routing and Pass values from multiple screens
14.	Conditional statement and loops
15.	Listviews, Gridview and Horizontal List Slider
16.	Drawer and User Account Drawer header
17.	Add Icons to AppBar. Actions and Leadings
18.	Tabs and Ternary Operator

19.	Popup Menu
20.	Bottom Navigations and Bottom Sheet
21.	How to create alert dialog in flutter?
22.	Table widget in Flutter
23.	How to use custom fonts (ttf) in app
24.	Figma to Flutter

	<b>Advanced Flutter</b>
1.	Introduction of packages
2.	How to change app name and app icon?
3.	WebView, Rating bar and Flutter Toast
4.	Datepicker and Timepicker
5.	How to Read Phone contacts?
6.	What is Asynchronous Programming?
7.	Shared Preferences
8.	A complete Login and session maintain app using shared preferences
9.	How to create Splashscreen?
10.	List and loop through List to generate dynamic designs
11.	Working with flutter local database SQFLITE
12.	Git and how to upload projects to GitHub
13.	Queries and CRUD operations using SQFLITE
14.	Firestore database using FIREBASE
15.	Working with multimedia
16.	How to store images on FIREBASE using storage
17.	Social media interaction (Google, Email, Facebook Authentications)
18.	A Complete Chat App using FIREBASE
19.	Local notifications and Firebase cloud notifications
20.	Introduction of API and JSON
21.	Simple CRUD API for product management
22.	Introduction of model and use in API
23.	Complex API with headers and complex Json
24.	MVC Project structure
25.	Theme customizations
26.	State management using provider
27.	State management using getX

28.	Creates Custom widgets using stateless widgets
29.	Screen and widget Animations in flutter
30.	How to use Google Map in flutter
31.	Geolocation
32.	Markers, Custom Markers and dynamic markers using Firestore
33.	How to create an online payment module using Razor pay
34.	Admob and google ads in flutter
35.	How to create charts for reporting
36.	How to create flutter projects in VS code
37.	Introductions of app versions for play store upload
38.	How to generate App for play store upload