

# TechnoMaster

## Flutter

Duration: 60 Hrs (Changeable) | Fees: Individual / Batch

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Syllabus Contd..

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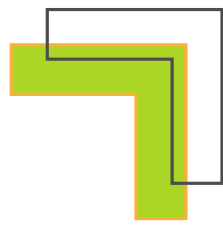
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## Syllabus



### **Module 1: Introduction**

- \* Introduction to Flutter

### **Module 2: Introduction To Dart**

- \* Reason why Dart holds the fort strong.
- \* Installing Visual Studio Code and the Dart Plugin.
- \* Installing Dart SDK.
- \* Writing the first Dart Program.

### **Module 3: Setting Up Flutter**

- \* Downloading/Cloning the Flutter SDK.
- \* Installing Flutter Plugin within VS Code.
- \* Understanding the structure of a Flutter Project.
- \* Building a simple app from scratch.

### **Module 4: Introducing Widget**

- \* Widgets and their role in a Flutter app.
- \* The MaterialApp and Scaffold widget.
- \* AppBar.
- \* FloatingActionButton.
- \* More widgets – Text, Center and Padding.
- \* Recreating the Default Flutter App (UI Only)

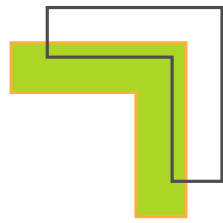
### **Module 5: Common Widget In Flutter**

- \* Containers and their role.
- \* Importing images from a network.
- \* Importing images as assets.



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## Syllabus



- \* Adding icons to widgets.
- \* Understanding Row and Column.
- \* ListView and ListTile.
- \* Building views using ListView.builder.
- \* InkWell and its importance.

### Module 6: Stateless And Stateful Widgets- The Concept

- \* Stateless vs. Stateful widgets.
- \* Defining a "State".
- \* The setState() method.
- \* Returning to the Default Flutter App.

### Module 7: Navigating Through Navigation

- \* Navigator and routes.
- \* Applying push() using MaterialPageRoute.
- \* Applying pop().
- \* Declaring parameter-less routes (push Named()) in MaterialApp widget.

### Module 8: Handling User Input

- \* Using Text Field.
- \* Handling changes to a Text Field.
- \* Pass retrieved values using Navigator.

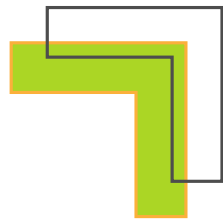
### Module 9: User Interface

- \* Applying Theme Data.
- \* The Basic Screen Layout.



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## Syllabus



- \* Applying Custom Font.

### **Module 10: Â Asynchronous Functions**

- \* function.
- \* asyncâ€™™ and â€™awaitâ€™™.

### **Module 11:Â Working With Remote Data**

- \* The â€™httpâ€™™ package.
- \* Model Class and JSON parsing.
- \* Displaying Remote Data. (NEWS API).

### **Module 12:Â Local storage**

- \* Shared Preferences.

### **Module 13:Â Using 3rd Party Packages**

- \* The â€™url\_launcherâ€™™ package.
- \* Adding onTap() to NEWS API.

### **Module 14:Â Other Useful Widgets**

- \* Grid View.
- \* The â€™Heroâ€™™ Animation
- \* Stack
- \* â€™Alert Dialogâ€™™ with buttons.