Flutter Lectureflow

The below given flow should be followed by each faculty while taking lectures. If the faculty decides to change the flow - he/she will need to first take permission from the Training coordinator at the HO (Ahmedabad office)

Module 6) Flutter - Introduction	1
• Introduction to student Career in Android Understanding Student Login of TOPS ERP Exam Process Working on Project and Assignment Using Lab Assign Project	
Module 7) Fundamental - Dart Programming	**7**
• Dart SDK • Flutter Installation - Android Studio Configuration - Flutter doctor • Dart Introduction • Data types in Dart • String interpolations • Operators • Working on Control Statements • conditional statements : if statement , if..else statement , nested if ,switch statement • looping statements : for loop , while loop , for .. in loop • Jumping statements • Working with collection • Working with list , set , map and methods • working with function • Advance Dart Programing • Class, Object, Inheritance, Polymorphism • Keywords : this , super , static , async	
Module 8) Flutter - UI Designing and Development	**13**

- Text, elevated button
- Project creation in Flutter - run project in read device and emulator - hot reloading app
- Flutter Architecture
- Working with Row and Column Widgets
- Flutter widgets, Flutter layout
- State ful Widgets
- Stateless Widgets
- Material App
- Scaffold , contain
- Properties of container widgets
- Stateless widgets - row and column widgets
- Working with text and button ontap and onpress event
- icons ,alert dialogs ,radio button , checkbox , switch ,TextFormField - working with all style properties
- Working with forms
- Design registration form
- Design Login Form
- Working with Form key
- Customize widgets
- Form validation , apply email validation – password hide and unhide
- Change dynamic background color on button click
- working with setState, init
- images , network images - working with assets
- Floating Action button with types
- Working with pageviewbuilder and dots controller

Module 9) Flutter - Advance UI Designing and Development	7

- working with init method
- working with them
- Working Routing
- Named Routes
- Arguments in routes
- Return data from screen
- Send data to screen
- Navigation , navigator , push and pop - navigation between different screens
- Listview and list item
- Working with grid view
- working with bottom navigation bar
- working with tab bar with icons
- working with navigation drawer with navigation screens
- Splash screen
- working with listview - dividers
- Flutter gestures

Module 10) Flutter - Offline Database- Sqlite	6

- Database Introduction
- working with Sqflite Database
- Dependencies
- working with model class
- CRUD operations using sqflite database
- working with async , await , future

Module 11) Flutter - Advance App Development	15

- Gallery Access , Camera access in Flutter
- Fetch data from internet
- Working on json parsing
- Animation
- retrieve data and display in listview format
- working with listview indexing
- working with gridview
- working with firebase database
- firebase authentication
- firebase real time database
- notification with firebase
- working with background services
- Google map integration and social media integration with flutter application
- Project implementation - Splash Screen • Login - registration Screen • Database integration or api integration • working with listview - navigation • navigation drawer with user header layout and list tile items
- Making phone calls , sms and url launcher
- Flutter state management
- Bloc concept

Module 12) Flutter - Deployment	1

- Generating Application , build application
- • Build a release for android device and deployment on playstore