

Specialized Programme on Mobile App Development (8 Weeks)

Objective–

- The main objective of the programme is to build capacity of the professionals drawn from industry, Academia and government.
- Participants would be able to make use of various software tools/ programming languages for developing Mobile Application.

The Programme is decomposed into these parts –

Java Programming

Learning basics of java concepts and server programming in java
Develop, debug and test app on IDE

Android App Development

To understand Android OS SDK and its features
Develop, debug and test app on android studio

Hybrid Mobile App Programming

To understand Hybrid App and its features
Develop, debug and test app on Visual studio

Course Content

JAVA PROGRAMMING

- Fundamental Programming Structures in Java
- Classes and Objects in Java
- Object Design and Programming with Java
- Java Interfaces
- Java Exception Handling
- Collections API
- JDBC

ANDROID PROGRAMMING

- Introduction of android
- Why develop for android
- Activities and Tasks
- Android SDK features
- Development Environment of Android SDK
- Creating android activities
- Fundamental android UI design
- Intents, adapters, dialogs
- Multimedia and graphics
- Activity and services
- Broadcast Receiver
- Material Design UI
- Data Storage
- Android Technique for saving data
- Data base in Androids
- Notification
- FireBase cloud Messaging
- Social Service integration (like Facebook, Twitter etc)
- Sensor programming
- Client Server application

- Json parsing
- REST API

HYBRID MOBILE APPS PROGRAMMING

- HTML 5.0
- CSS
- jScripts,
- Javascript Validations
- Node.js
- Introduction to React Native platform to build applications for android and Ios
- Environment setup
- Fundamental UI design
- React native components
- React native API