

## Android

### Objective of the Module:

Android is a Java base programming language has its own structure, syntax rules, and programming paradigm. The Java language's programming paradigm is based on the concept of OOP, which the language's features support. The Android is a Java derivative, so its syntax rules look much like Java's. For example, code blocks are modularized into methods and delimited by braces ({and}), and variables are declared before they are used. Structurally, the Android language starts with *packages and makes design in xml*. A package is the Android namespace mechanism. Within packages are classes, and within classes are methods, variables, constants, and more.

### After completion of the Module the student will be able to

- Get Fully Concept of creation of Android Apps. That can user easily install in their respective Device
- Fundamental features of a Device base programming like Calling, SMS, CHAT Application.
- How to take the statement of a business problem and from this determine suitable logic for solving the problem; then be able to proceed to code that logic as a program written in Android.
- How to test, document and prepare a professional looking package and giving permission for each business project using Android manifest.

### Course Content:

- Basic Building blocks - Activities, Services, Broadcast Receivers & Content providers.
- AndroidManifest.xml, Resources & R.java, Layouts
- Drawable Resources, Activities and Activity lifecycle
- Develop an app for demonstrating the communication between Intents
- Relative Layout, Linear Layout, Form widgets, Text views, Edit texts, buttons etc. for UI development.
- Different form widgets like Spinner, Check Box. Working with Radio Button, progress Bar.
- Working with Dialogs, Alert Dialog, Toast, Date-Picker, Time-Picker and Menu
- Using complex views like List View and Grid Views. Working with ArrayAdapters and BaseAdapters.
- Working with tab and menu control. Using Android Telephony and sms from your application.
- Working with Images Switcher, Toggle button, View flipper. Different types of file saving system in Android. (SD card)
- Working with SQLite database and SQL and DML query. Insert, Display program with sqllite database.
- Sound and video example in android.
- Accessing phone services like Call

### Course Guidelines:

1. Course duration is 45 days. 30 days out of total duration of the course is reserved for Study Period since the date of registration. After Study Period, exams must be completed within the remaining 15 days positively.
2. Be careful while facing the Exam.
3. No Re-exam can be arranged.

### Technical Specifications:

- Windows 7, 8, 8.1, 10
- Android or Windows based Smartphone
- Internet Explorer 11, Google Chrome 40.0.2214.94, Mozilla Firefox 35.0.1
- Internet connection: 2Mbps or above
- PDF Reader
- Media player for mpeg format
- Adobe Flash Player

### Eligibility: Madhyamik or Equivalent

- *IT IS MANDATORY TO DEPOSIT COURSE FEES & TO UPDATE RELATED DOCUMENTS WITHIN 3 DAYS FROM THE DAY OF REGISTRATION. YOUR COURSE WILL BE ACTIVATED FROM THE DAY OF REGISTRATION*
- [CLICK HERE TO VIEW THE PAYMENT PROCEDURE:](#)