National Institute of Electronic and Information Technology
Lucknow

Name of Group: Training
Name of Course: Certificate Course in Mobile Application Development using Android

Objective: This course is designed to provide the knowledge of Android along with Android Studio and java. After completion of the course the student will be able equipped with skills for analyzing, designing, developing and troubleshooting Android applications along with Java.

Duration: 6 Weeks/ 90 Hrs.
Eligibility: Undergoing / Graduation with knowledge of any programming language.
Course Fees (Proposed): Rs.6000 + GST
Registration Process: Candidates have to apply in prescribed application form. The forms can be collected from NIELIT Lucknow centre. The Duly filled form along with the course fees has to be submitted at NIELIT Lucknow centre. The Fees deposited is non-refundable.
Course Content:

Modules:	Duration	Contents
Module 1	1 week	**Android History:** Android History: Android, Blocks, Android, Install Studio, Hello android example, Internal,Dalvik VM,AndroidManifest.xml,R.java,Hide Title,Bar,Screen Orientation, **Getting Started:**:How to Select Android Version, Step To Create Android Project ,Running Your Application, Create Switching App, Run Application in your Android Mobile, Create a List by the use of Listview. **Activity:**Activity Life Cycle,TheManifestFile.xml,Layout Resources, Project File and Folder, **Introduction of Listeners**: Working with Their Abstract methods ,OnClickListener,OnLongClickListener,OnCheckChangedListener,OnItemClickListener,OnItemSelectedListener,OnKeyFocus,OnInitListener
Module 2	1 week	**AndroidComponents**:,Button,ToggleButton,Checkbox,Spinner,ProgressBar,SeekBar,QuickeContactBadge,RadioGroup,RatingBar. **Notification**, Notifying User, Status Bar Notification Toast Dialog Notification **Layouts:** GridLayout, LinearLayout, RelativeLayout, FrameLayout. **Composite**:Listiew,Grid View,Scroll View,Horizontal Scroll View, Search View,Sliding Drawer,TabHost,WebView. **Image and Media**: ImageView,ImageButton,Gallery,Media Controller,VideoView,How to and Video,Audio and Video Recording,How to Click Picture Using Camera, How to Set Wallpaper, TimePicker and DatePicker,
Module 3	4 week	**Android Menu:**HowTo Create Menu,OptionMenu,ContextMenu,SubMenu. **Creating Dialogs:**Introduction to Dialogs,Showing and Dismissing of dialog Boxes.AlertDialog,ProgressDialog,Threading and Handler. **Intent, BroadcastReceiver, adapter:** Different Type of Intent?,What is intent-Filter,What is Pending Intent,What is a sticky Intent,Using Intent to take picture. **What is Fragement:** Multipane &Single pane, Fragment Life Cycle,Addition of Fragments,Fragments Working without UI. **Working with Background:**Introduction,Creating and Controlling Service.

		Google map:Current Location,Search Location. **Data Storage:** Editor ,Content Provider ,External & Internal Storage ,Database Structure ,SqLite , Sqlite Open Helper, Handling Database. **Animation:** Rolling your own Widgets ,Drawables ,Bitmaps, Paints**.** **Bluetooth and Wi-Fi:,** How to make Device On, Off and Discoverable ,Introduction of Wi-Fi ,How To Vibrate Your Device. **Android Telephony:** Telephony Manager ,Get Call State ,Get Call State 2, Simple Caller Talker ,Phone Call ,Send SMS ,Send Email **Final:** Project (App Development)

1. There will be 3 Hours Session per day
2. **These sessions will include Theory Classes and Practical.**

Mode of Payment: Fees can be paid either by swiping debit/credit card.

For any queries and more details please contact to Sh Pankaj Shukla, Joint Director (7706009303).