

Class: B.C.A./B.Sc.C.S. SY Sem-IV
Course Title:- Mobile Application Development
Course Code:- U-ADC-434-A

Total Teaching Hours: 50

Total Marks :-50

Credit : 2

Learning Objective :-Learn Designing of android application, writing java code, joining xml with java, testing application on real mobile device or virtual device, database connectivity etc.

Course Outcome:-

On successful completion of this course the students will be able to:

- Design xml controls, join xml controls with java object, run app on real mobile device, create services, works with different java android classes like LocationManager, SensorManager, SQLiteOpenHelper etc.
- Get job of Android developer or xml-android app UI designer

SYLLABUS

Unit-I :- Android Basic

Chapter 1. Android Basic

4

- 1.1 What is Android?
- 1.2 Activity Life Cycle
- 1.3 Call Back Methods
- 1.4 Logcat usage

Chapter 2. Android Application Structure

10

- 2.1 Android Application Structure
- 2.2 AndroidManifest.xml, <Uses-permission>, < uses-sdk>
- 2.3 First Sample Android Application
- 2.4 Activity Registration
- 2.5 Activity & Intent

Unit-II :- Android Widgets

Chapter 3. UI Widget – I

7

- 3.1 LinearLayout, RelativeLayout
- 3.2 Button, EditText,TextView
- 3.3 Event Handling
- 3.4 RadioButton , CheckBox
- 3.5 ImageView

Chapter 4. UI Widget – II	8
4.1 SeekBar, ProgressBar	
4.2 Switch	
4.3 Analog Clock , Digital Clock	
4.4 ListView	
4.5 WebView	

Unit-III :- Android Menus &Database Connectivity

Chapter 5. Menus & Notifications	7
5.1 Alert Dialog	
5.2 Prompt Dialog	
5.3 Android Menus	
5.4 Toast Notification	
5.5 Custom Toast	

Chapter 6. Services & SQLite	7
6.1 Android Services	
6.2 SQL Commands	
6.3 SQLiteOpenHelper Class	
6.4 SQLite Based Application	

Unit- IV :- Telephony & Mini Projects

Chapter 7. Telephony & Sensor API	3
7.1 TelephonyManager	
7.2 PhoneCall	
7.3 Send SMS	
7.4 SensorManager	

Chapter 8. Mini Projects	3
8.1 Torch App	
8.2 Media Player	
8.3 Voice To Text Conversion	

Reference Books:-

1. Learning Android , OREILLY By:- Marko Gargenta
2. Android Black Book