

# Bhoj Reddy Engineering College for Women: Hyderabad

## Department of Information Technology Engineering

Lesson plan of Faculty member for the academic year 2020-21

Class: IV B Tech

Branch-Section: IT-A

Semester: II

Subject: Android Application Development

Lectures per week: 4 (Hrs)

Lecture Number	Topics to be covered	Date (s)
<b>Unit – I: Introduction to Android Operating System</b>		
1	Introduction	01 September 2020
2	Android OS design and Features	03 September 2020
3	Android development framework	05 September 2020
4	Android development framework	07 September 2020
5	SDK features	08 September 2020
6	Installing and running applications	10 September 2020
7	Creating AVDs	12 September 2020
8	Types of Android applications	14 September 2020
9	Best practices in Android programming	15 September 2020
10	Android tools	17 September 2020
11	Android Manifest file	19 September 2020
12	resources	21 September 2020
13	Resources for different devices and languages,	22 September 2020
14	Android Application Lifecycle	24 September 2020
15	Android Application Lifecycle	26 September 2020
<b>Unit – II: Android User Interface</b>		
16	Device and pixel density independent measuring units Layouts	28 September 2020
17	Linear, Relative Layouts	29 September 2020
18	Grid and Table Layouts	01 October 2020
19	User Interface (UI) Components – Editable and non editable Text Views, Buttons	03 October 2020
20	Radio and Toggle Buttons	05 October 2020
21	Checkboxes, Spinners	06 October 2020
22	Dialog and pickers Event Handling	08 October 2020
23	Handling clicks or changes of various UI components	10 October 2020
24	Creating fragments	12 October 2020
25	Lifecycle of fragments, Fragment states	13 October 2020
26	Adding, removing, replacing fragments with transactions	15 October 2020
27	Interface between activities and fragments	26 October 2020
28	Multi-screen Activities	27 October 2020
<b>Unit – III : Intents and Broadcasts</b>		
29	Intent – Using intents to launch Activities	27 October 2020
30	Explicitly starting new Activity	29 October 2020
31	Implicit Intents	31 October 2020
32	Passing data to Intents	09 November 2020
33	Getting results from Activities	10 November 2020
34	Native Actions	12 November 2020
35	using Intent to dial a number or to send SMS Broadcast Receivers	16 November 2020
36	Intent filters to service implicit Intents	17 November 2020
37	Resolving Intent filters	19 November 2020
38	Finding and using Intents received within an Activity	21 November 2020
39	Creating and Displaying notifications, Displaying Toasts	23 November 2020

**Unit – IV : Persistent Storage:**

40	Using application specific folders and files	24 November 2020
41	Using application specific folders and files	25 November 2020
42	creating files, reading data from files	26 November 2020
43	creating files, reading data from files	28 November 2020
44	listing contents of a directory	01 December 2020
45	Creating shared preferences	03 December 2020
46	Working on shared resources	05 December 2020
47	Introduction to SQLite database	07 December 2020
48	creating and opening a database	08 December 2020
49	creating tables	10 December 2020
50	Inserting retrieving and deleting data	12 December 2020
51	Registering Content Providers	14 December 2020
52	Using content Providers	15 December 2020
53	Using content Providers	17 December 2020
54	Alarms – Creating and using alarms	21 December 2020
55	Alarms – Creating and using alarms	22 December 2020
56	Using Internet Resources	24 December 2020
57	Connecting to internet resource,	28 December 2020
58	using download manager	29 December 2020
59	Location Based Services	31 December 2020
60	Finding Current Location and showing location on the Maps	02 January 2021

**REFERENCES:**

Beginning Android 4 Application Development, Wei-Meng Lee, Wiley India (Wrox), 2013

Name and signature of the faculty: Y Prashanth ----

Name and signature of Head of the Department: C Murugamani ----