LESSON PLAN

Subject: Mobile Application development Subject code: MCA 20-43

Semester: VI

SNo	Topic	No. of	СО	Teaching
	-	Lectures	Covered	Methodology
1	Mobile Applications, Characteristics and Benefits, Application Models, Mobile Devices Profiles	2		Board, PPT
2	Basics of Android, Importance and Scope, Android Versions	1		PPT
3	Android Architecture, Android Stack	1		Board
4	Android Applications Structure	1		Board
5	Android Emulator, Android SDK	1	CO1	Software Mirror Cast
6	Overview of Android Studio, Android File Structure	1		Software Mirror Cast
7	Android Virtual Device Manager, DDMS, LogCat	1		Board
8	Understanding Activities	1		PPT
9	Services, Callbacks and Override in Application, Application Signing	1		PPT
10	Android User Interface, Device and Pixel Density-Independent Measuring Units	1		Board
11	Layouts – Linear, Relative, Grid, and Table Layouts	1		Board, PPT
12	Editable and Non-Editable Text Views, Buttons, Radio Buttons, Toggle Buttons	2		Software Mirror Cast
13	Checkboxes, Spinners, Dialog and Pickers, List View, Spinner View	1		Software Mirror Cast
14	Handling Clicks or Changes of Various UI Components	1	CO2	Board
15	Intents – Using Intents to Launch Activities, Explicitly Starting New Activities, Implicit Intents	2		Software Mirror Cast
16	Passing Data to Intents, Getting Results from Activities, Native Actions, Using Intents to Dial a Number or Send SMS	2		Software Mirror Cast
17	API Keys for Google Maps, Publishing Application to the Android Market	1		PPT
18	Creating Fragments, Lifecycle of Fragments	2		PPT
19	Fragment Transactions (Adding, Removing, Replacing)	1		Board
20	Interfacing Between Fragments and Activities	1		Software Mirror Cast
21	Location-Based Services, Android Location APIs	1		PPT
22	Google Maps Activity and MapActivity	1	CO3	PPT
23	Sensors and Near Field Communication (NFC)	1		Board
24	Building Client-Server Applications, Native Libraries and Headers	2		PPT

25	Introduction to SQLite, Creating and	1		Software
	Opening a Database, Creating Tables			Mirror Cast
26	Inserting Data, Retrieving Data, Deleting	1		Software
	Data from SQLite Database			Mirror Cast
27	Registering Content Providers, Using	1		Software
	Content Providers (Insert, Delete, Retrieve,		CO4	Mirror Cast
	Update)		CO+	
28	Saving Data to Internal Storage, Saving Data	1		PPT
	to External Storage			
29	Canvas Drawing, Shadows, Gradients	2		Software
	_			Mirror Cast