Lesson Plan

Discipline	:	Computer Engg.
Semester	:	6th
Subject	:	MOBILE APPLICATION DEVELOPMENT
Lesson Plan Duration	:	15 Weeks (From January 2020 to May 2020)

Week		Theory	Practical		
	Lecture Day	Topic (including assignment/test)	Practical	Торіс	
1 st	1	Introduction : Evolution of Mobile	Day 1	Write a program to	
1	T	Computing, Important terminologies,	Ŧ	demonstrate activity	
		Mobile		(Application Life Cycle)	
		computing functions		()]]]]]]]]]]]]]]]]]]	
	2	Mobile computing security issues,		-	
	-	Mobile computing Devices			
	3	Networks: Wired , Wireless , Adhoc,		-	
		Comparison of wired and wireless			
		mechanism			
	4	Various types of wireless			
		communication technologies used in			
		Mobiles, Antennas , Basics of Base			
		Station and Medium access control and			
		Mobile station.			
2nd	5	Architecture : Architecture of Mobile	2	Write a program to	
		Computing, 3- Tier Architecture,		demonstrate different types of	
		Presentation (Tier-1), Application (layouts	
		Tier -2), Data (Tier – 3)		_	
	6	Mobile computing through Telephony:			
		Evolution through telephony			
	7	Wireless LAN: Introduction-			
		Applications of WLAN, Infrared versus			
		Radio Transmission			
	8	Features of WI-FI and WI-MAX,			
		Bluetooth :Introduction and application			
3 rd	9	Global System for Mobile	3	Write a program to implement	
		Communication (GSM): Introduction		simple calculator using text	
	10	GSM Architecture, GSM Entities (view, edit view, option	
		Basics only), Introduction to CDMA		button and button	
	11	Comparison of FDMA, CDMA andIDMA.			
	12	Short Message Service (SMS): Mobile			
		computing over SMS, Short Message			
. th		Service,			
4 th	13	Strength of SMS, SMS Architecture	4	1. Write a program to	
	14	Value added services through SMS, VAS		demonstrate list view	
		Examples		2. Write a program to	
	15	General Packet Radio Service (GPRS):		demonstrate photo	
	4.0	Introduction,		gallery	
	16	, GPRS Packet data Network,			
		Applications for GPRS, Generic			
5 th	47	Applications,	-		
5	17	GPRS Specific Applications, Limitations	5	Write a program to	
		of GPRS, Features of 3G and 4G Data		demonstrate Date picker and time picker	
		Service			

	18	Mobile Operating Systems : Evaluation of Mobile Operating System-Handset Manufactures				
	19	and their Mobile OS- Mobile OS and their features				
	20	Linux Kernel based Mobile Or				
6 th	21	of Android, with context mer		Develop an simple application with context menu and option		
	22	Architecture of Android		menu		
	23	Android Market, Android Runtime (Dalvik Virtual Machine)				
th	24	ANDROID SDK & ADT : Android SDK,				
7 th	25	Android Development Tool (ADT)	7	Develop an application to send SMS		
	26	Installing and configuring Android, Android Virtual Device (AVD)				
	27	ACTIVITIES & INTENTS : Understanding Activites				
	28	activities and indents		1		
8 th	29	Calling built-in applications using intents, Fragments Displaying Notifications	8	Write a program to view, edit contact		
-	30	User Interface : Views and Viewgroups				
	31	Display Orientation , Action Bar,				
	32	Listening for UI Notifications				
9 th	33	Basic Views : Textview, Button, Image Button, EditText, CheckBox,	9	Write a program to send e-		
	34	ToggleButton, RadioButton and RadioGroup Views,		- mail		
	35	ProgressBar View, Auto Complete Text View				
	36	Advanced Views : Time Picker View and Date Picker View,				
10 th	37	, List Views, Image View, Menus	10	Write a program to demonstrate a service		
	38	Analog and Digital View, Dialog Boxes				
	39	Displaying Pictures & Menus with Views: Image View, Gallery View,				
	40	ImageSwitcher, GridView - Creating the Helper Methods				
11 th	41	Options Menu, Context Menu	11	Write a program to demonstrate web view to		
	42	SMS, Phone: Sending SMS		-display web site		
	43	Receiving SMS,				
	44	Making phone call				
12th	45	Location Based Services : Obtaining the Maps API Key- Displaying the Map, Zoom Control , Navigating to a specific location	12	Write a program to display map of given location/position using map view		
	46	Adding Marker , Geo Coding and				
	47	reverse Geo coding Location Based Service and SQLite		4		
	47	Location Based Service and Solite		1		
	40	Maps API Key, Displaying the Map, Zoom Control,				

13th	49	Navigating to a specific location	13	Write a program to	
	50	Adding Marker		-demonstrate the application of -intent class	
	51	Geo Coding and reverse Geo coding			
	52	Content Provider : Sharing data			
14th	53	view contacts	14	Write a program to create a	
	54	Add contacts, Modify contacts, Delete Contacts		text file in a external memory	
	55	Storage : Store and Retire data's in Internal and External Storage			
-	56	SQLite, Creating and using databases			
15th 	57	Android Service : Consuming Web service using HTTP	15	Write a program to store and fetch data from SQL life	
	58	downloading binary Data,		database.	
	59	Downloading Text Content			
	60	Accessing Web Service			