Lesson Plan

Name of Faculty : Pooja

Discipline : Computer Engineering

Semester : 6th

Subject : Mobile Application Development

Session Duration : 15 Weeks (From February 2024 to June 2024)

Week	Theory/ Lecture			Practical		
	Day	Topic (including Assignments/ Tests)	Day	Торіс		
1 st	1	Introduction : Evolution of Mobile Computing, Important terminologies, Mobile computing functions	1	Write a program to demonstrate activity (Application Life Cycle)		
	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 Computing, 3- Tier Architecture, Presentation (Tier-1), Application (Tier-2), Data (Tier – 3)	2	Write a program to demonstrate different types of layouts		
	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				
3rd	9	Global System for Mobile Communication (GSM): Introduction	3	Write a program to implement simple calculator using text view, edit view, option button and button		
	10	GSM Architecture, GSM Entities (Basics only), Introduction to CDMA				
	11	Comparison of FDMA, CDMA and IDMA.				
	12	Short Message Service (SMS): Mobile computing over SMS, Short Message Service,				

4 th	13	Strength of SMS, SMS Architecture	4	1. Write a program to
	14	Value added services through SMS, VAS Examples		demonstrate list view 2. Write a program to demonstrate photo gallery
	15	General Packet Radio Service (GPRS): Introduction,		demonstate prioto gariery
	16	GPRS Packet data Network, Applications for GPRS, Generic Applications,		
5 th	17	GPRS Specific Applications, Limitations of GPRS, Features of 3G and 4G Data Service	5	Write a program to demonstrate Date picker and time picker
	18	Assignment: 1		
		Mobile Operating Systems : Evaluation of Mobile Operating System-Handset Manufactures		
	19	and their Mobile OS- Mobile OS and their features		
		Sessional Test: 1		
	20	Linux Kernel based Mobile Or		
6 th	21	ANDROID : Android Versions, Features of Android,	6	Develop an simple application with context menu and option menu
	22	Architecture of Android		
	23	Android Market, Android Runtime (Dalvik Virtual Machine)		
	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 Activities		
	28	activities and indents		
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 View groups		
	31	Display Orientation , Action Bar,		
	32	Listening for UI Notifications		

9 th	33	Basic Views : Text view, Button, Image Button, Edit Text, Check Box,	9	Write a program to send e-mail
	34	Toggle Button, Radio Button and Radio Group Views,		
	35	Progress Bar 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	Image Switcher, Grid View - Creating the Helper Methods		
11 th	41	Assignment: 2 Options Menu, Context Menu	11	Write a program to demonstrate web view to display web site
	42	Sessional Test: 2 SMS, Phone: Sending SMS		
	43	Receiving SMS,		
	44	Making phone call		
12 th	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 reverse Geo coding		
	47	Location Based Service and SQLite		
	48	Location Based Services: Obtaining the Maps API Key, Displaying the Map, Zoom Control,		
13 th	49	Navigating to a specific location	13	Write a program to demonstrate
	50	Adding Marker		the application of intent class
	51	Geo Coding and reverse Geo coding		
	52	Content Provider : Sharing data		
14 th	53	view contacts	14	Write a program to create a text file in a external memory
	54	Add contacts, Modify contacts, Delete Contacts		
	55	Storage : Store and Retire data's in Internal and External Storage		

	56	SQLite, Creating and using databases		
15 th	57	Android Service : Consuming Web service using HTTP	15	Write a program to store and fetch data from SQL life database.
	58	downloading binary Data,		
	59	Downloading Text Content		
	60	Accessing Web Service		
		Assignment: 3		
		Sessional Test: 3		