

## LESSON PLAN

**Name of the Faculty:** Sangeeta  
**Discipline :** Computer Science  
**Semester :** 6th  
**Subject :** MobileApplication Development  
**Lesson Plan Duration :** 11 weeks



Work load (Lecture/Practical) per week : 3 lectures/2 Practical lab

Week	Theory		Practical	
	Lecture day	Topic	Practical day	Topic
1st	1	Introduction : Evolution of Mobile Computing, Important terminologies, Mobile computing functions,	1st	Write a program to demonstrate activity (Application Life Cycle) Write a program to demonstrate different types of layouts
	2	Mobile computing security issues, Mobile computing Devices,		
	3	Networks: Wired , Wireless , Adhoc, Comparison of wired and wireless mechanism,		
2nd	4	Various types of wireless communication technologies used in Mobiles,	2nd	Write a program to implement simple calculator using text view, edit view, option button and button
	5	Antennas , Basics of Base Station and Medium access control and Mobile station.		
	6	Architecture : Architecture of Mobile Computing, 3- Tier Architecture, Presentation ( Tier-1), Application ( Tier -2), Data ( Tier – 3)		
3rd	7	Mobile computing through Telephony: Evolution through telephony	3rd	Write a program to demonstrate list view Write a program to demonstrate photo gallery
	8	Wireless LAN: Introduction - Applications of WLAN, Infrared versus Radio Transmission,		
	9	Features of WI-FI and WI-MAX		
4th	10	Bluetooth : Introduction and application	4th	Write a program to demonstrate Date picker and time picker
	11	ANDROID : Android Versions, Features of Android,		
	12	Architecture of Android, Android Market, Android Runtime (Dalvik Virtual Machine)		
5th	13	ANDROID SDK & ADT : Android SDK, Android Development Tool (ADT), Installing and configuring Android, Android Virtual Device (AVD	5th	Develop an simple application with context menu and option menu
	14	ACTIVITIES & INTENTS : Understanding Activites, Linking activities and indents,		
	15	Calling built-in applications using intents, Fragments Displaying , Notifications		
6th	16	User Interface : Views and Viewgroups, Layouts, Display Orientation , Action Bars, Listeners for UI Notifications	6th	Develop an application to send SMS Write a program to view, edit contact
	17	Basic Views : TextView, Button, Image Button, EditText, CheckBox, ToggleButton, RadioButton and RadioGroup Views,		
	18	ProgressBar View, Auto Complete Text View		
7th	19	Advanced Views : Time Picker View and Date Picker View, List Views, Image View,	7th	Write a program to send e-mail
	20	Menus, Analog and Digital View, Dialog Boxes		
	21	Displaying Pictures & Menus with Views: Image View, Gallery View, ImageSwitcher,		
8th	22	GridView - Creating the Helper Methods, Options Menu, Context,Menu	8th	Write a program to demonstrate a service Write a program to demonstrate web view to display web site
	23	SMS, Phone: Sending SMS, Receiving SMS, Making phone call		
	24	Location Based Services : Obtaining the Maps API Key- Displaying the Map, Zoom Control, Navigating to a specific location, Adding Marker ,		
9th	25	Geo Coding, and reverse Geo coding	9th	Write a program to display map of given location/position using map view
	26	Location Based Service and SQLite		
	27	Content Provider : Sharing data, view contacts,		
10th	28	Add contacts, Modify contacts, Delete Contacts	10th	Write a program to create a text file in a external memory
	29	Storage : Store and Retire data's in Internal and External Storage,		
	30	SQLite, Creating & using databases		
11th	31	Android Service : Consuming Web service using HTTP , downloading binary,Data,	11th	Write a program to store and fetch data from SQL life database
	32	Downloading Text Content, Accessing Web Service		