

Android Programming Practical

B. Sc (Information Technology)		Semester – VI	
Course Name: Android Programming Practical		Course Code: USIT6P6	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	20

Practical No	Details
0	Introduction to Android, Introduction to Android Studio IDE, Application Fundamentals: Creating a Project, Android Components, Activities, Services, Content Providers, Broadcast Receivers, Interface overview, Creating Android Virtual device, USB debugging mode, Android Application Overview. Simple “Hello World” program.
1	Programming Resources Android Resources: (Color, Theme, String, Drawable, Dimension, Image),
2	Programming Activities and fragments Activity Life Cycle, Activity methods, Multiple Activities, Life Cycle of fragments and multiple fragments.
3	Programs related to different Layouts Coordinate, Linear, Relative, Table, Absolute, Frame, List View, Grid View.
4	Programming UI elements AppBar, Fragments, UI Components
5	Programming menus, dialog, dialog fragments
6	Programs on Intents, Events, Listeners and Adapters The Android Intent Class, Using Events and Event Listeners
7	Programs on Services, notification and broadcast receivers
8	a. Database Programming with SQLite b. Programming Network Communications and Services (JSON)
9	Programming threads, handles and asynchronized programs
10	a. Programming Media API and Telephone API b. Programming Security and permissions

Books and References:

Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Android Programming for Beginners	John Horton	Packt	Third	2021
2.	Head First Android Development	Dawn Griffiths, David Griffiths	O'Reilly	Second	2017
3.	Android System Programming	Roger Ye	Packt	First	2017
4.	Fundamentals of Android App Development	Sujit Kumar Mishra	BPB	First	2020