

Devi Ahilya University, Indore, India Institute of Engineering & Technology				II Year B.E. (Computer Engg.) (Full Time)			
Subject Code & Name	Instructions Hours per Week			Credits			
CER4L2 Hands-on Android Programming	L	T	P	L	T	P	Total
	0	0	2	0	0	1	1

Learning Objectives:

- To familiarize students with Android operating systems internals.
- To learn and develop skills for developing an Android application.

Prerequisites: Knowledge of Java programming and Operating Systems basics.

COURSE CONTENTS

Unit – I

Introduction – What is Android, Installing softwares, Hello Android examples, software stack, android core building blocks, Emulator.

Unit – II

Android UI – Working with buttons & other components, Activity lifecycle, Intent – implicit and explicit, Fragment lifecycle, Android Menu, Layout manager, Adaptor and view.

Unit – III

Android Service & Data Storage – Introduction, Android service API, Android service life cycle, Shared preferences, internal storage, external storage, SQLite, XML & JSON.

Unit – IV

Android Content Provider & Notification – Contact content provider, Other built-in content providers, Understanding content URI, ContentResolver, Notification API, Setting notification properties, issuing notification.

Unit – V

Android APIs & Connectivity – Overview of TextToSpeech API, Telephony API, Location API and Sensor API, Working with WiFi and Bluetooth.

Learning Outcomes :

Books Recommended:

1. .
2. .
3. .
4. .
5. .
6. Programming Android, Z. Mednieks, L. Dornin, G. Blake, M. Nakamura, ORIELY's.

List of Assignments:

During the learning of course, students need to do assignments:

1. .
2. .
3. .
4. .
5. .
6. .