



**C. U. Shah University, Wadhwan City**

**Faculty of Computer Science**

**Name of Program: Master of Science in Information Technology**

**(Web Technology)**

**Semester : III**

**W.e.f. June-2015**

**Teaching & Evaluation Scheme**

Sr. No	Subject Code	Subject Name	Teaching Hours/Week				Credits	Evaluation Scheme/Semester								
			Th	Tu	Pr	Total		Theory				Practical			Total Marks	
								Sessional Exam		University Exam		Internal		Uni.		
								Marks	Hrs	Marks	Hrs	Pr	TW	Pr		
2	5CS03WAN1	Mobile Application Development using Android	4	-	-	4	4	30	1.5	70	3	-	-	-	100	

### Objectives:

To provide the knowledge about how to make mobile applications for android platform using latest technology. To provide comprehensive guidance on designing, developing, testing, debugging, and distributing professional mobile based applications.

### Prerequisites:

Fundamentals knowledge of Core Java Programming, GUI Controls, Database Terminologies. Android programming is based on Java programming language so student should have basic knowledge of Java programming and little of XML.

### Course Outline:

Ch. No	Chapter Name	Topics	Lect. (Hours)
1	Introduction to Android	Introduction to Android Version History Android Architecture The Open Handset Alliance The Android Platform Android SDK Building a sample Android application	5
2	Android Application Design	Anatomy of an Android Applications Android Terminologies Application Context, Activities, Services, Intents Receiving & Broadcasting Intents Android Manifest File & Its Common Settings Managing Application Resources In A Hierarchy Working With Different Types Of Resources	12
3	Android User Interface Design	User Interface Screen Elements Designing User Interfaces With Layouts Drawing & Working With Animation	09
4	Database Connectivity Using SQLite	Using Android Data & Storage APIs Managing Data Using SQLite Sharing Data Between Applications With Content Providers	10

5	Location Based Services (LBS)	Using Global Positioning Services (GPS) Geocoding Locations Mapping Locations	4
6	Common Android API	Android Networking API Android Web API Android Telephony API	5
7	Notifications	Notifying The User Notifying With The Status Bar Vibrating The Phone Blinking The Lights	5
8	Deployment of applications	Publish Android Application	2
9	Services	Services, Application development using Json in Mysql	3
<b>Total Lectures</b>			55

**Learning outcome:**

Students are able to develop event driven multiple activities android application.

**Books Recommended:**

- (1) Android Wireless Application Development By Lauren Darcey and Shane Conder, Pearson Education, 2nd ed. (2011)
- (2) Professional Android 2 Application Development Reto Meier, Wiley India Pvt Ltd (2011)

**Reference Books:**

- (1) Beginning Android Mark L Murphy, Wiley India Pvt Ltd
- (2) Using SQLite By Jay A. Kreibich, Publisher: O'Reilly Media
- (3) Mobile Computing using Android and iPhone [ISBN: 978 - 93 - 81786 - 93 - 2]  
by Bharat & Company