

GUJARAT UNIVERSITYBCA SEM-V SYLLABUS

COURSE TITLE	SEC301 Mobile Application Development	
COURSE CODE	SEC-301	
COURSE CREDIT	3	
Session Per Week	3	
Total Teaching Hours	40 HOURS	

AIM

To develop the skill about the basic mobile application development using Android

To create android apps with different features and basic functionalities

LEARNING OUTCOMES

On the completion of the course students will:

- 1. Understand the meaning and syntax of android programming
- 3. Understand the basic android terminology and technology
- 4.To design activities using simple and advanced controls of android
- 5.To understand the fundamental concepts of mobile app development

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	Android Terminology	
	Context, Activity, Services, Intents	
	Application tasks with activitiesActivity Life cycle	
	 Activity Life cycle Managing activity transitions with intents 	6
	 Managing activity transitions with intents Working with services 	
	 working with services Receiving and Broadcasting intents 	
	* Receiving and Divadeasting intents	
	Android Application Design	10
	❖ Using Android Manifest File	
	❖ Editing Manifest file using Eclipse	
	❖ Editing Manifest file manually	
	 Managing applications identity and system 	4
2	requirements	
~	Registering activity with manifest file	
	❖ Working with permissions	
	❖ Managing Application Resources	
	 Working with different types of resources 	6
	String, color, Dimensions, Drawables, images,	•
	animation, menu	
	User Interface Elements	10
	Android views and layouts	
	> TextView, Spinner, Buttons, Checkboxes,	
	Switches, RadioGroups	6
	ToggleButton, Date and Time Controls	6
	Progressbar, Seekbar, Ratingbar, Chonometer, clocks	
3	CIUCKS	
-	❖ User Interfaces and Layouts	
	Viewgroups	
	➤ Built-in Layout classes	
	FrameLayout, LinearLayout,	4
	RelativeLayout,TableLayout, GridLayout	
	Multiple Layouts on a screen	
	Data deiron Containora	10
4	Data driven Containers ❖ Listview, Gridview, Galleryview, ArrayAdapter,	10
	CursorAdapter	
	❖ AdapterView, ListActivity, TabActivity	6
	• Maple view, Districtivity, Tablictivity	
	❖ Fragment Lifecyle	
	❖ List Fragment	
	❖ WebView Fragment	
	❖ Working with Dialogs	4
	❖ Types of Dialogs	
	❖ Lifecycle of a Dialog	
гехт во	OOK/S:	

❖ Lauren Darcey and Shane Conder, "Android Wireless Application Development", Pearson Education

REFERENCE BOOKS:

- ❖ Reto Meier, "Professional Android 2 Application Development", Wiley India Pvt Ltd (2011)
- ♦ Mark L Murphy, "Beginning Android", Wiley India Pvt Ltd (2009)
- ❖ Sayed Y Hashimi and Satya Komatineni, "Pro Android", Wiley India Pvt Ltd (2009)

WEB RESOURCES:

- https://developer.android.com/training/index.html
- http://www.androidhive.info/2011/
- https://developer.android.com/guide/components/index.html

REQUIRED SOFTWARE/S

- ❖ Android Studio 2.3 (https://developer.android.com/studio/index.html)
- ❖ Java version 1.8