SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar
B.C.A. Semester – VI
US06DBCA22 : Mobile Applications Development
(Syllabus Effective from June 2020)

Credits : 4   **External : 70 Marks**
Contact Hrs per Week : 4   **University Examination Duration: 3 Hrs**
All units carry equal weightage

Unit	Description in detail
I	**Introduction to Android:** Introduction to Android Android Versions and its Features Architecture of Android Android Devices Standard development environment for Android applications Installing Android, Android Development Tools (ADT) Creating Android Virtual Devices (AVDs) Creating Hello World and running application on Emulator

II	**Activities, Fragments and Intents**
	 Understanding Activities – Life Cycle of an Android Activity
	     Applying Styles and Themes to an Activity
	     Hiding the Activity Title
	     Displaying a Dialog Window, Progress Dialog
	 Linking Activities Using Intents
	 Fragments
	     Adding Fragments Dynamically
	     Lifecycle of a fragment
	     Intersections between fragments
	 Intents
	     Understanding the intent Objects
	     Use of Intent Filters.

III	**Android Mobile Application Control**
	 Using Basic Views
	     TextView , Button, ImageButton, EditText, CheckBox, ToggleButton, RadioButton, RadioGroup , ProgressBar,
	     AutoCompleteTextView
	 Using Picker Views
	     TimePicker, DatePicker
	 Using List Views
	     ListView, Spinner

IV	**Displaying Picture & Menus**
	 Gallary and ImageView
	 ImageSwitcher, GridView
	 Using Menus
	     Options Menu, Context Menu, SubMenu
	 Additional Views
	     AnalogClock and DigitalClock.
	 WebView

Basic Text & Reference Books :-
1. Wei-Meng Lee,"Beginning Android Application Development", Wiley Publishing, Inc, Wrox Programmer to Programmer,2013.
2. Lauren Darcey, Shane Conder,"AndroidWireless Application Development", 2nd Edition,2010.
3. Ian F. Darwin,"Android Cookbook", O'Reilly,2012.