Bachelor of Computer Application (Semester – V and Semester - VI) Saurashtra University Effective from June - 2018

	CS-31 Mobile Computing using Android and iPhone							
Sr. No	Topic	Detail	Weight age In %	Approx Lectur es				
1	Introduction to Android Android Application Design	 The Open Handset Alliance The Android Platform, Android SDK Building a sample Android application Anatomy of an Android applications Android terminologies Application Context, Activities, Services, Intents Receiving and Broadcasting Intents Android Manifest File and its common settings Using Intent Filter, Permissions Managing Application resources in a hierarchy Working with different types of resources 	20	12				
2	Android User Interface Design	 User Interface Screen elements Button, EditText, TextView, DatePicker, TimePicker, ProgressBar, ListView, GridView, RadioGroup, ImageButton, Fragement Designing User Interfaces with Layouts Relative Layout, Linear Layout, Table Layout etc Dialogs Drawing and Working with Animation Frame By Frame Animation Twined Animation 	20	12				
3	Database Connectivity Using SQLite and Content Provider	 Using Android Data and Storage APIs Managing data using SQLite Sharing Data Between Applications with Content Providers 	20	12				

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4	Location Based Services (LBS), Common Android API, Notifications, Services, Deployment of applications	 Using Global Positioning Services (GPS) Geocoding Locations Mapping Locations Many more with location based services Android networking API Android web API Android telephony API Notifying the user, Notifying with the status bar Vibrating the phone Blinking the lights Customizing the notifications Services Application development using JSON in MySQL Publish android application 	20	12
5	Introduction To iPhone	 Introduction To X-Code (IDE) Framework, Design User Interface for button, text view, text field, etc. Creating And Building Simple Application Cocoa Touch And MVC 	20	12
	100	60		

Notes: Android application must be developed using ANDROID STUDIO.

Reference Books:

- (1) Android Wireless Application Development By Lauren Darcey and Shane Conder, Pearson Education, 2nd ed. (2011)
- (2) Beginning iOS 6 Development By David Mark , Jack Nutting , Jeff LaMarche , Fredrik Olsson Apress Publication.
- (3) Using SQLite By Jay A. Kreibich, Publisher: O'Reilly Media
- (4) Mobile Computing using Android and iPhone [ISBN: 978-93-81786-93-2] by Bharat & Company
- (5) Professional Android 2 Application Development Reto Meier, Wiley India Pvt Ltd (2011)
- (6) Beginning Android Mark L Murphy, Wiley India Pvt Ltd