



C-DAC & Gujarat Technological University
M.E. Computer Engineering
(Wireless Mobile Computing)
Gandhinagar

Semester: II

Subject Name: Advanced Programming on Mobile Devices - I

Subject Code: 2725304

Course Content:

Part: 1

Introduction to Mobile Platforms, Overview of iPhone , iPhone OS Technology Layers ,Learning Objective C – Basics, Learning Objective C – Advance, Understanding the Basics of creating an iPhone application, Tools for iPhone OS Development, Xcode IDE, Interface Builder ,View Controller (Table ,NavBar, Text, TabBar, ToolBar, Web)
Handling Touch Events ,Capturing iPhone events ,Event Handling,Creating Views Programmatically
Introduction to OpenGL, Creating Animations

Part 2:

Device Support : Accelerometer, Accessory (Camera, Bluetooth, GPS, Maps)
Core Data,SQLite- AddressBook, Application Preferences, Mail Message, Apple URL Scheme, Reference

Part 3:

multithreading on iPhone OS, Playing Audio and Video on iPhone, Using Web Service,Bonjour Programming, Programming iCloud, Building web apps with Dashcode, Graphics, Signing Code for iPhone Development Case Study

Text Book:

1. iPhone in action by Christopher Allen / Dreamtech
2. The iOS5 Developer's Cookbook: Core Concepts and Essential Recipes for iOS Programmers
by Erica Sadun
3. Beginning iOS 5 Application Development by Wei Meng Lee

References Books:

1. Beginning iphone Sdk Programming With Objective-C by Wei-meng Lee/Wiely
2. Head First iPhone Development by Tracey Pilone, Dan Pilone/ O'Reilly
3. Professional iphone And ipad Database Application Programming,Alessi by Patrick Alessi/wiely India