

**Kadi Sarva Vishwavidyalaya**  
**Master of Computer Application (MCA)**  
**Year – III (Semester – V) (W.E.F. August 2014)**

**Subject Name: Next Generation Application Development – MCA504(D)**

Sub Total Credit	Teaching scheme		Examination scheme				Total Marks
	(per week)		MID	CEC	External		
	Th	Pr	Th	Th	Th.	Pr.	
5	3	4	25	25	50	50	150

**Course Description:** This course teaches how to build a simple iOS app in iOS 7 from concept to release. Its approach is based on my personal experience of creating my first iOS app. You start with an idea for an app called Bands that gets fleshed out into a set of features. You then learn about Objective-C and the design concepts that are the foundation of Cocoa Touch and the iOS SDK. From there you start to build the Bands app by progressively building the project from what is essentially a “Hello World” app to a final app that includes all features you can find in many popular iOS apps

**Course Objectives:** It's for current iOS developers who would like to learn some of the technologies included in newer releases of iOS and Xcode such as storyboards, auto layout, and local search.

**Pre-requisites:** Knowledge of object oriented programming

### Detailed Syllabus

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|---------------|---|------------|
| <b>Unit 1</b> | <b>Getting Started:</b> Scoping the App, Defining the Features, Creating a Development Plan<br><br><b>introduction to objective-C:</b> Exploring the History of Objective-C, Explaining the Basics, Discussing Advanced Concepts<br><br><b>starting a new app:</b> Creating a New App in Xcode, Adding a Label to a Storyboard, Running in the Simulator, Learning About Auto Layout, Exploring Application Settings, Running on a Device   | <b>20%</b> |
| <b>Unit 2</b> | <b>Creating a user input Form:</b> Introducing the Band Model Object, Building an Interactive User Interface, Saving and Retrieving Data<br><br><b>Using table views:</b> Exploring Table Views, Implementing the Bands Data Source, Implementing Sections and Index, Editing Table Data  | <b>20%</b> |
| <b>Unit 3</b> | <b>Integrating the Camera and photo library in ios apps:</b> Adding an Image View and Gesture Recognizer, Selecting a Picture from the Photo Library, Taking a Picture with the Camera<br><b>Integrating social media:</b> Sending E-mails and Text Messages, Simplifying Social Network Integration<br><b>Using web views:</b> Learning About Web Views Adding Navigation<br><b>Exploring maps and local search:</b> Learning About Map Views, Performing a Local Search                             | <b>20%</b> |
| <b>Unit 4</b> | <ul style="list-style-type: none"> <li>• <b>Getting started With Web services</b> <ul style="list-style-type: none"> <li>• Learning About Web Services</li> <li>• Exploring the iTunes Search API</li> <li>• Discussing JSON</li> <li>• Adding the Search View</li> <li>• Introducing NSURLSession</li> <li>• Creating and Scheduling a Data Tas</li> <li>• Parsing JSON</li> <li>• Displaying Search Results</li> <li>• Previewing Tracks</li> <li>• Showing Tracks in iTunes</li> </ul> </li> </ul> | <b>20%</b> |

## Unit 5

20%

- **Deploying your ios app**
  - Deploying the App to Beta Testers
  - Registering Beta Devices
  - Generating Digital Certificates
  - Creating an App ID and Ad Hoc Provisioning Profile
  - Signing and Deploying an Ad Hoc Build
  - Submitting the App to Apple
  - Exploring iTunes Connect
  - Creating an App Store Provisioning Profile
  - Validating and Submitting an App

### Text Book :

“Beginning iOS Programming” Building and Deploying iOS Applications, **Publisher:** Wrox, **By:** Nick Harris

### Reference Books :

1. Programming iOS 7
2. iOS 7 Programming Cookbook
3. iOS 7 Programming Fundamental

Unit wise coverage from Text Book

1. Unit 1: Chapter -1,2,3
2. Unit 2: Chapter-4,5
3. Unit 3: Chapter-6,7,8,9
4. Unit 4: Chapter 10
5. Unit 5: Chapter – 12

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