| iOS Sy | llabus | |
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| Session 1: Objective C | | |
| Classes, Properties, Categories and Protocols | Working with Foundation Classes | |
| Control statements and loops in objective C | Understanding run-time environment | |
| Working with Arrays and Dictionaries | • | |
| Session 2: Memory Management | | |
| Understanding the Memory leaks | Reference Counting algorithm and ARC | |
| Session 3: iPhone SDK | | |
| Introduction to iPhone SDK | Introduction to xcode | |
| COCOA Touch Framework | iOS Application Architecture | |
| Session 4: Views and Views Controller | | |
| View | ViewController | |
| View Life cycle | Basic Controls - Labels, Button, TextField, Slider etc | |
| Session 5: Advanced Views and Controller | | |
| TableView | TableView Controller | |
| Picker View , Date Picker | Scroll View | |
| Web View | Navigation and Tabbar Controller | |
| Session 6: Interface Builder | | |
| Interface Builder | Understanding XIB files | |
| Creating Outlets and Actions | Hibernate with annotation | |
| Session 7: Data Storage | | |
| Directory structure of an iOS App | Using SQLite database | |
| Using Core Data | Property List | |
| User Defaults | • | |
| Session 8:XML and Web Services | | |
| XML Parser | JSON Parser | |
| SOAP based web service | REST web service | |
| Session 9 :Touches and Gestures | | |
| Handling the touch events | Handling Gestures | |
| Session 10: Multimedia | | |
| Playing Audio file | Playing short sounds | |
| Playing Video on iPhone | • | |
| Session 11; Maps | | |
| Displaying Map in iOS App | Working with Pin Annotations | |
| Handling the Map region | • | |
| Session 12: Working with Storyboard | | |
| Using Storyboard to design the app | Using Segues | |
| Passing data from One Controller to another | • | |
| Session 13: Handling Different Screen Sizes | | |
| Programmatically controlling the views | Using springs and struts model | |

| AutoLayout | • | |
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| Session 14: Multithreading | | |
| Multithreading in an iOS App | Using NSThread | |
| Using GCD (Grand Central Dispatch) | • | |
| Session 15: Notifications | | |
| NSNotification and NSNotificationCenter | Working with UILocalNotifications | |
| APNS (Apple Push Notification Service) Overview | • | |
| Session 16: Using Camera | | |
| Capturing image using camera | Getting the images from the Image Gallery | |
| Session 17 : Accessing Device Sensors | | |
| Accelerometer | • GPS | |
| Session 18: Mails and SMS | | |
| Sending mail and SMS from an App | • | |
| Session 20: Transitioning to the iPad | | |
| SplitView Controller | PopOver Controller | |
| Session 21: Deployment | | |
| Installing and testing an App on iOS Device | Publishing an app to the Appstore | |
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