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## Course: Iphone (IOS) Training

Duration: 80 Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of **over 250 industry experts**. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. **We offer 100% placement support through JobsNEAR.in**

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- Web Design, Javascript
- Angular JS, React JS
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- AWS, GCP, Azure
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- Microsoft Excel
- Ethical Hacking



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## iOS Development Environment

- \* Introduction to iOS SDK
- \* What's new in iOS9
- \* SDK Tools
- \* What's new in Xcode7
- \* Using XCode
- \* Using Interface Builder
- \* Using iPhone Simulator

## Swift Language Basics


- \* Core Data Types
- \* String Type
- \* Tuples & Optional
- \* Constants & Variables
- \* Statements & Operators
- \* Control Flow & Decisions
- \* Functions


## Basic Object Oriented Programming using Swift


- \* Structs
- \* Types versus instances
- \* Member and static methods
- \* Custom initialization & De-initialization
- \* Classes
- \* Initialization

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- \* Methods
- \* Properties

## **Advanced Object Oriented Programming using Swift**

- \* Optional
- \* Introducing optional
- \* Unwrapping an optional
- \* Optional binding
- \* Nested Types
- \* Generic Types
- \* Protocol

## **Memory Management**

- \* Reference Counting Basics
- \* Automatic Reference Count
- \* Retain Cycles

## **iPhone Application Basics**


- \* Anatomy of an iPhone application
- \* Application Lifecycle and States

## **User Interface Programmingâ€™ Basics**

- \* UI Kit Framework
- \* XIB and Interface Builder
- \* Window & View
- \* Basic User Controls

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- \* Labels, Text Fields, Buttons, Sliders, Picker etc.
- \* Building application screens
- \* Alerts and Action Sheets

## **Auto-layout and Constraints**

### **View Controllers**

- \* Basics
- \* Creating View Controllers
- \* Content vs Container View Controllers
- \* Orientation Management

### **User Interfaceâ€™ Special Views**


- \* Image View
- \* Scroll View
- \* Table Views
- \* Populating and configuring Table View
- \* Data Source and Delegate
- \* Table View Cells
- \* Custom Cells
- \* Editing Table View
- \* Collection View


### **Multiple View Controllers**

- \* Applications with Multiple Views
- \* Presenting View Controllers

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- \* Animating View Switching

## **Storyboards**

- \* Storyboard File
- \* View Controller and Scene
- \* Segue
- \* Invoking a Segue
- \* XIB and Storyboards
- \* Table View Cell Prototype

## **Multi Touch and Gestures API**

### **Data Persistence - 1**

- \* File System
- \* SQLite

### **Data Persistence - 2**

- \* Core Data
- \* NS User Defaults

## **Concurrency and Background Execution**


- \* GCD and Closures
- \* NS Operation and NS Operation Queue
- \* Background execution

## **Networking, Connectivity**

## **Multimedia**

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**- Thank You -**


**N.B:This syllabus is not final and can be customized as per requirements / updates.**

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