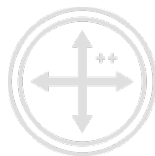




iOS Iphone App Development-60 Hours

(Basic + Intermediate + Semi Advanced)

Programming & development



POSITIVE QUADRANT
TECHNOLOGIES
SERVING INFORMATION WORLDWIDE

Course Curriculum

Understanding Swift

Learning Objectives: In this module, we will learn the basic building blocks of Swift technology. You will learn all basics principles of Swift Programming language like Loops, Conditions and Structures.

Topics:

- Introduction to Swift



- Introduction to XCode IDE
- Structure of Swift program
- Compiling and building a Hello world
- Swift Playground
- Basic Syntax
- Variables and data types
- Structs and Classes
-

Getting started with SWIFT

Learning Objectives: In this module, we will take you through different collections types available in Swift. You will learn to create Classes and Enums along with Protocols & Generics. You will also learn newly introduces Tuples, Closures and Subscripts.

Topics:

- Working with collections
- Protocols and Extensions
- Generics
- Tuple
- Functions
- Subscripts
- Closures
- Automatic Reference Counting

iOS Development Basics

Learning Objectives: In this module, we will take you through XCode and iOS SDK Installation. You will learn to create basic iOS Application. You will also learn core pillars of iOS Application Development. We will learn to use iOS simulator to test iOS Applications.

Topics:

- Installing XCode and iOS SDK
- Understanding XCode
- Creating a simple iOS app
- Project templates
- Introduction to pillars of iOS app development-Tools-XCode
- iOS Simulator
- Instruments
- Language- Swift



- Design patterns
- Frameworks
- Design-CorrectUI
- AppleHIG
- Testing
- Provisioning
- Signing
- Submitting
- Using iOS Simulator
- MVC pattern in iOS app development

Storyboard Controllers & Layouts

Learning Objectives: In this module, we will take you through iOS Application Lifecycle. You will learn different View Controllers available in iOS SDK to create different types of Applications. This module will enable you to debug any iOS application to analyze in-depth functionality. You will learn AutoLayouts to create Applications for different screen sizes. We will also teach you to effectively use iOS Storyboards to create multiple page iOS applications.

Topics:

- Lifecycle of iOS Application
- Understanding Delegation
- iOS View Controllers
- Creating UI
- Introduction to Layout and Views
- Designing responsive interfaces with Auto layout
- Create a sample UI
- Walkthrough of controllers
- Debugging iOS application

TableView , ContentView & Other View Controllers

Learning Objectives: This module will concentrate on TableViews & CollectionView which are considered to be heavily used views in any iOS Application. You will learn how to create TableView & CollectionViews and perform various operations on it.

Topics:

- Introduction to Table View
- Creating a basic table view and data source
- Loading data into TableView
- Reusing table view cells
- Customizing table views



- UI CollectionView
- UI RefreshControl
- Introduction to multiple-view applications
- Using navigation controller
- Introduction to a master-detail application
- Creating a tab-bar-driven application
- UI PageViewController

Universal App , App Size Classes & Camera

Learning Objectives: In this module, you will learn to create applications which work both on iPhone & iPad. You will learn to use Size Classes to support multiple screens. This module will also teach you to capture images from Camera or Gallery.

Topics:

- UISplitViewController
- Master-detail application
- Using Size Classes for Adaptive Layout
- Using Camera & Gallery to Capture Images



Animation, Location, Map & Social Sharing

Learning Objectives: In this module, you will learn about iOS Animation framework while working on Core Animation, UIKit Dynamics. You will also learn to use Facebook Pop Animation framework. You will also learn to capture device location and displaying locations on Map. Last but not the least this module will also teach you to share contents right from your iOS Application using UIActivityViewController.

Topics:

- Animations- Core Animation
- UIKit Dynamics
- Facebook Pop Animation
- Working with Maps- MKMapItem and MKPlacemark
- CLLocationManager
- MKMapView
- UIActivityViewController to perform Social Sharing