

# iOS Apps Development using SWIFT

## About

Apple has introduced Swift language in WWDC this year. Swift has various advantages over objective C and also has better performance with Apple hardware. Swift will be next Apple programming language and will evolve over the years.

It is great opportunity to learn the language when it is first live giving us the great cutting edge over the other programmers. We will learn Apple concepts using Swift. We will learn every minor details which Swift comes with and comparing with Objective C, C++ and JAVA.

Various frameworks using SWIFT.

## Who Should Attend

- Beginners, Junior Software Developers, Senior Software Developers, Team Leads and Managers.
- Hobbian who wants to bring their ideas into potential Apps.

## Duration

- 2 days
- Each day 8 hours of session
- Total 16 hours

## What You'll Learn

- *Understanding SWIFT Language in terms syntax and Symantics*
- *How variables and constants are define and managed in memory*
- *SWIFT syntax, Disclosure, Methods new data types in Swift*
- *Properties and Protocols in Swift*
- *OOPs concepts in Swift*
- *Nesting Types in Swift*
- *Functions and Closures in Swift*
- *Create simple application using SWIFT*

## Prerequisites

- Basic knowledge of OOPs programming
- Have surface level of iOS programming will be beneficial
- Have basic knowledge of UI elements in iOS will be beneficial

## Course Outline

### Variables and Constant in SWIFT

- Understand variable declaration
- Understanding syntax for variable declaration
- Type defining the variable
- Understanding constant declaration
- Syntax for declaring the constant
- Understanding Type Annotation
- Type Alias and it's important
- Tuples and it's benefits
- How values are interpreted in print statement
- Understanding Optional Variables concepts
- Understanding Implicit Optional UnWrapping concepts

### Operators and Collection Type in Swift

- Understand changes in some of the operators
- Understanding Array and Dictionary in Swift

### Control Flow and Loops in Swift

- Understand If, If Else If and Switch statements in Swift
- Understanding various looping options in Swift

### Functions or Methods, Closure and Subscripts in Swift

- Understanding Method declaration and parameters
- Understanding Functions as Type
- Talk about Functions as parameters
- Talk functions as returned type
- Nesting of function definition. Implementing functions with in the functions
- Talk about Closure concepts
- Talk about Subscripts

### Classes and OOPs concepts in SWIFT

- How Class is declared in SWIFT
- Class file structure in SWIFT
- How Factory design patterns works in SWIFT
- Talk about\_INITIALIZER and deinitializer

### Properties and Protocols in SWIFT

- Talk about properties
- Talk about properties in SWIFT
- How properties play vital role in memory management
- Talk about\_INITIALIZER and deinitializer

- Talk about Protocols in Swift

### Automatic Reference Counting in SWIFT

- ARC concepts in SWIFT
- Strong Reference between instance of Classes
- Talk about references and Closure
- Talk about open chaining

### Type Casting in SWIFT

- Talk about ANY
- Talk about AnyObject
- Talk about Nested Type
- Talk about Generic Types and Functions

### Application setup in SWIFT

- Talk about the various classes created on Project creation
- Understand AppDelegate class

### UIKit and SWIFT

- Talk about UIView Hierarchy
- Talk about various UI components
- Play with some of the UI elements

### Application architect of iOS Application

- Talk about Single View Application
- Talk about Multi Controller Applications
- Type of multicontroller applications
- Implement some project with various Application Architech

### Overview of playground

## Pricing

**16000 INR + 12.36% Service Tax**

## Terms and Conditions

- Payment: 100% advance for blocking the seat
- All payment needs to be made in favor of “Nimap Infotech LLP”
- **Wire Transfer Details**

Bank Name : ICICI bank

Branch : Mazagaon Branch

Account Name : Nimap Infotech LLP

A/c. no : [107105000697](#)

IFSC Code : icic0001071

MICR code : 400229073

- Tea and Lunch will be provided at the Training Center.
- Non-refundable Fees. Replacement of seat is allowed. Thank You!!

Success of Nimap Infotech as a company is measured by the growth and happiness of its customers. Nimap Infotech has a vested interest in supporting you for years to come.

Please send us a PO and provided above and email to [Priyank@nimapinfotech.com](mailto:Priyank@nimapinfotech.com) if you choose to accept this offer.

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