

# Syllabus of iOS Course

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## Establishment to Development OS, IDE – XCODE, Interface Builder

- Mac versions –Features
- iOS versions -Features
- Introduction to Xcode tool and Compilers

## Fundamental features

- classes and Methods
- Properties and methods
- Arrays, Dictionaries - (Mutable)
- Categories and protocols
- Application Lifecycle
- Xib, StoryBoard and Interface builder
- Creating and building simple applications
- UIState Preservation
- View application sandbox and CrashLogs of Application
- Delegate and Data Source
- Properties tag

## Cocoa Design patterns

- About MVC
- Model, View and Controller Classes
- Pod file integration

## Interaction with UIControls

- UIViewController Lifecycle
- Button,label,Text Fields,SearchBar
- switch,slider,progress bar
- Alerts Action sheet
- Tableviews, CollectionView
- Scrollview, Web view
- Picker, Date picker, Imageview, Image picker controller
- Gestures
- Mail,Message,Phone call

## Working With TableView, CollectionView

- UITableViewController
- UITableViewCell
- Working with multiple TableViews
- CustomCell creation
- Collection delegate and datasource

## Multi-View Applications Controllers

- view to view (Present model view controller )
- Navigation controller
- Tab Bar controller
- Pageview controller

## CoreGraphics

- UIKit and view lifeCycle
- Alpha ,Opaque ,hidden
- SplashView and Basic animation
- Adding Views with animation
- Lottie Animation

## MapKit

- Introduction to MapKit Framework
- Showing a simple Map
- Update User Location

## API services and JSON Parsing

- Rest service
- JSON Parsing
- Error handling

## Database Persistence

- User Defaults
- Plist
- sqlite
- Core Data

## Media interaction

- AVAudio player
- Media Player
- MPMovie player

## Notifications

- Local notifications
- APN and Firebase Notification
- VOIP Notification

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## Social Network Integration

- FaceBook
- Firebase Mobile login
- Apple Sign In

## Asset Management

- Image Asset
- Color Asset
- Custom Font

## MultiTasking in iOS

- Synchronous and Asynchronous
- Introduction to NSTimers

## Testing And Deployment

- Developer ID Creation
- Debugging application in device
- App store Submission