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# Android,IOS&React Native Course Details

By [A1Training\(PT\)](#)

Course Name	Android,IOS&React Native
Category	Mobile App Development
Mode Of Classes	Online/Offline
Demo Classes	At Your Convenience
Training Methodology	20% Theory & 80% Practical
Course Duration	30-35 Hours
Class Availability	Weekdays & Weekends

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## Why A1Training?

- Training by highly experienced and certified professionals
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# **Syllabus: Android Training Course (Advanced)**

## **Introduction and Basics of Android**

- What is Android?
- Setting up development environment
- Dalvik Virtual Machine & .apk file extension

## **Application Structure**

- AndroidManifest.xml • uses-permission & uses-sdk
- Resources & R.java
- Assets
  - Layouts & Drawable Resources
  - Activities and Activity lifecycle
- First sample Application
  - Understanding User Interface in Android
- Fundamental of Android UI design
- Exploring Screen Layouts and Screen Densities
- Creating Specific Device oriented Screen Layouts

## **Intents, Activities, Preferences**

- Intents: Explicit Intents, Implicit Intents
- Life Cycle of Activity
- Preferences: SharedPreferences

## **Fragments**

- What are Fragments
- Practical Use Of Fragments
- Life Cycle of Fragments
- Usage Of Action Bars and Tabs

## **Working with Adapters, Widgets, Alerts and Menus**

- Adapter controls
- Alerts Widgets
- Menus: Option menu, Context menu, Sub menu



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## **Database**

- SQLite Programming
- Managing Data Using SQLite

## **Content Providers**

- Defining and using content providers

## **Broadcast Receivers and Services**

- Understanding and implementing Broadcast Receiver
- Understanding and implementing Service

## **Styles and Themes**

- Applying Styles and Themes to the UI

## **Location and Maps**

- Google API for Maps
- Geo coding and Reverse geo coding

## **Advanced Android Features**

- Data parsing: XML and JSON
- Reading and writing phone storage

## **Android Telephony API**

- Accessing Phone services (Call, SMS, MMS)
- Sensors
- System Information like IMEI, IMSI, MSISDN, Service Provider etc

## **IOS Training Syllabus**

### **Introduction to Mobile Application Development**

## **Mobile OS**

- Top Mobile OS in Market
- Difference between iOS and Android
- Short History of IOS



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- Requirements for IOS
- Applications
- Latest Versions

## **IOS Basics**

- What is IOS
- IOS Architecture
- Frameworks
- MVC Design Pattern
- Application Life Cycle
- Features

## **Objective - C & Swift**

- Introduction to Objective-C
- General Concepts of Objective-C
- Introduction to Swift
- General Concepts of Swift

## **Xcode**

- Introduction to Xcode
  - - Navigator
  - - Editor
  - - Utility
  - - Tools
  - - Console
  - - Document
- Simulator
- Instruments
- Window, View Controller & Views
- Interface Builder
- Compiler

## **Startup**

- Application Templates
- Introduction to Storyboard
- Hello World Application
- How 'Hello World' Working



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- Debugging

## **Database**

- Plist
- Preference
- Sqlite

## **Web Service**

- Restful Web Service (JSON & XML)

## **Provisioning Profile**

- Keychain Access
- SSL Certificate
- Apple Developer Account
- Account Types
- Certificates
- Profiles
- Identifier
- Devices • Code Signing
- Xcode Organizer
- Testing on Device
- Deployment in App store



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# **React Native Course : Syllabus**

## **1. Introduction**

- Course Overview
- Platforms, Frameworks & Tools
- Hybrid frameworks versus Native
- HTML5 / CSS3 / JS brush up
- ES6 Javascript Basics
- Tools Install
- React Native – Hello World!
- React Intro

## **2.React Basics**

- Getting started in React
- JSX
- Components
- Component Composition
- Props & Prop Types
- Event Handlers
- State
- React Web App

## **3. Understanding React Native Development**

- CRNA
- Creating the first App
- Understanding the App
- Styling the App
- Understanding Flexbox
- Inspecting & Debugging styles

## **4. Advanced React Native Components**

- Built-in components
- Working with Images
- Hybrid frameworks versus Native
- ListViews
- FlatList
- Touchable
- TextInput



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- Creating Views (Scenes)

## **5. Understanding State Management**

- State
- State storage problem
- Redux Basics
- Redux Principles
- Implementing Redux
- React-Redux
- Middleware
- Counter App Demo

## **6. Navigation**

- App Scene Navigation
- React Navigation Library
- Navigator Basics
- Implementing Navigation
- Stack Navigator
- Tab Navigator
- Employee Directory App

## **7. Integrating APIs**

- Integrating data using API
- NYT Data API
- Wiring up Redux
- Asynchronous requests
- Refactoring code
- NY Times App

## **8. Preparing for Production**

- Running on Physical devices
- Performance
- Testing
- Debugging
- App store submission