



GETIN TECHNOLOGIES

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COURSE NAME: Android

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Placement Eligibility:

Eligible: Any Bachelor Degree, Any Master Degree,
MBA,

Not Eligible: Diploma

Class Mode:

Classroom | Online | Recorded Session | AI Session

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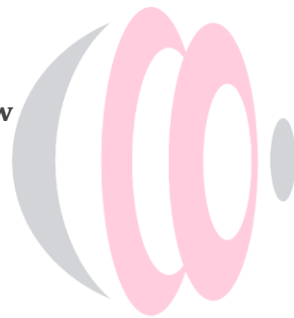
ANDROID SYLLABUS

Basics of Java

- What is Java?
- History and Features of Java
- Basic Java Program
- Difference between JDK, JRE and JVM
- What is JVM?
- Variable and Data Type
- Unicode System
- Naming Convention
- Structure of Java Code
- How to Run Java Programs
- Print to the Output Window

OOPS Concepts

- Advantage of OOPs
- Object and Class
- Method Overloading
- Constructor
- Static variable, method and block
- this keyword & Inheritance (IS-A)
- Aggregation and Composition (HAS-A)
- Method Overriding
- Covariant Return Type
- super keyword
- Instance Initializer block
- final keyword
- Runtime Polymorphism
- static and Dynamic binding
- Abstract class and Interface
- Downcasting with instanceof operator
- Package and Access Modifiers
- Encapsulation



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- **Object Cloning**
- **Java Array**
- **Call By Value and Call By Reference**
- **Strictfp keyword**
- **Creating API Document**

String Handling

- **What is string ?**
- **Immutable String**
- **String Comparison**
- **String Concatenation**
- **Substring**
- **Methods of String class**
- **StringBuffer class**
- **StringBuilder class**
- **Creating Immutable class**
- **toString method**
- **StringTokenizer class**
- **Upper and LowerCase**
- **The compare Method**
- **The equals Method**
- **The replace Method**
- **Printing Formatted Strings**



Exception Handling

- **What is Exception Handling**
- **try and catch block**
- **Multiple catch block**
- **Nested try**
- **finally block**
- **throw keyword**
- **Exception Propagation**
- **Throws keyword**
- **Exception Handling with Method Overriding**
- **Custom Exception**

Multithreading

- **Multithreading : What and Why?**
- **Life Cycle of a Thread Creating Thread**
- **Thread Scheduler**
- **Sleeping a thread**
- **Joining a thread**
- **Thread Priority**
- **Daemon Thread**
- **Thread Pooling**
- **Thread Group**
- **ShutdownHook**
- **Performing multiple task by multiple thread**
- **Garbage Collection**
- **Runnable class**

Control Flow

- **If Statements in Java**
- **If Else Statements**
- **Boolean Values**
- **Switch Statements**
- **Java for Loops**
- **Java While Loops**

Arrays in Java

- **Java Arrays**
- **Arrays and Loops**
- **Sorting Arrays**
- **Arrays and Strings**
- **Multi -Dimensional Arrays**
- **Array Lists**

Java Methods

- **Java Methods**
- **Calling your Java Methods**



- **Passing Values to Methods**
- **Multiple Method Parameters**

Synchronization

- **What is Synchronization?**
- **Synchronized method**
- **Synchronized block**
- **Static synchronization**
- **Deadlock**
- **Inter-thread Communication**
- **Interrupting Thread**

Java Form Controls

- **Java Forms**
- **The Different Form Views in NetBeans/Eclipse**
- **Add a Text Box to a Java Form**
- **Add a Button to the Form**
- **Button Properties**
- **Java Form Events**
- **Java and Combo Boxes**
- **Java Check Boxes**
- **Radio Buttons**
- **Adding Menus to a Java Form**
- **Open File Dialogue Boxes**
- **Opening Files**
- **Save File Dialogue Boxes**

Java and Databases

- **Java and Databases**
- **Creating a Database with Java**
- **Adding Records to Table**
- **SQL Commands**
- **Connect to a Database with Java code**
- **Connecting to the Table**

Databases and Java Forms

- Databases and Java Forms
- Database Scrolling Buttons
- Move Back Through the Database
- Move to the First and Last Records
- Update a Record
- Add a New Record
- Save a New Record
- Delete a Record from a Database

SQL Server/MySql/SQL

Work with Store Procedure & Data Base

- Learn Database Models
- Overview of SQL Server Management Studio
- Creating the Data Base
- Creating the table
- Select,Insert,Delete,Update in Data Base
- Writing simple and complex queries that retrieve data from the Database
- Creating the Store Procedure
- Types of Store Procedure (Input,Output)
- Types of Joins
- Sub-Queries
- Create and Managing View
- Create Function and Use with Procedure

Basic Android Studio

Basics of Android

- What is Android
- History and Version
- Installing Softwares
- Setup Android Studio
- Hello Android example

- **Internal Details**
- **Dalvik VM**
- **Software Stack**
- **Android Core Building Blocks**
- **Android Emulator**
- **AndroidManifest.xml**
- **R.java file**
- **Hide Title Bar**
- **Screen Orientation**

UI Widgets

- **Working with Button**
- **Toast**
- **Custom Toast**
- **Button**
- **Toggle Button**
- **Switch Button**
- **Image Button**
- **CheckBox**
- **AlertDialog**
- **Spinner**
- **AutoCompleteTextView**
- **RatingBar**
- **DatePicker**
- **TimePicker**
- **ProgressBar**
- **Quick Contact Budge**
- **Analog Clock and Digital Clock**
- **Working with hardware Button**
- **File Download**

Activity, Intent & Fragment

- **Activity Lifecycle**
- **Activity Example**
- **Implicit Intent**



- **Explicit Intent**
- **Fragment Lifecycle**
- **Fragment Example**
- **Dynamic Fragment**

Android Menu

- **Option Menu**
- **Context Menu**
- **Popup Menu**

Layout Manager

- **Relative Layout**
- **Linear Layout**
- **Table Layout**
- **Grid Layout**

Adaptor

- **Array Adaptor**
- **ArrayList Adaptor**
- **Base Adaptor**

View

- **GridView**
- **WebView**
- **ScrollView**
- **SearchView**
- **TabHost**
- **DynamicListView**
- **ExpandedListView**



Advanced Android course Syllabus

Android Service

- **Android Service**
- **Android Service API**

- **Android Started Service**
- **Android Bound Service**
- **Android Service Life Cycle**
- **Android Service Example**

Data Storage

- **Shared Preferences**
- **Internal Storage**
- **External Storage**

SQLite

- **SQLite API**
- **SQLite Spinner**
- **SQLite ListView**

XML & JSON

- **XML Parsing SAX**
- **XML Parsing DOM**
- **XML Pull Parser**
- **JSON Parsing**

Content Provider

- **Content Provider Fundamental**
- **Contact Content Provider**
- **Other Built-in Content Providers**
- **Creating Custom Content Provider**
- **Understanding Content URI**
- **ContentResolver**
- **Sharing Information from custom content provider**

Android Notification

- **Notification API**
- **Creating Notification Builder**
- **Setting Notification Properties**
- **Attaching Actions**



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- Issuing Notification
- NotificationCompat.Builder class
- Android Notification Examples

Multimedia

- Wallpapers
- Live Wallpaper
- Multimedia API
- Playing Audio
- Creating Audio Player
- Playing Video
- Alarm Manager
- Gallery

Speech API

- TextToSpeech API
- TextToSpeech Example
- Managing speed and pitch
- Speech To Text

Telephony API

- Telephony Manager
- Get Call State
- Call State Broadcast Receiver
- Simple Caller Talker
- Making Phone Call
- Send SMS
- Send Email

Location API

- Location API Fundamental
- Example of Android Location API
- Working with Google Maps

Animation



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- **Android Animation API**
- **Android Drawable class**
- **Android Animation Example**
- **Android Rotate Animation**
- **Android Fade Animation**
- **Android Zoom Animation**

Device Connectivity

- **Bluetooth Tutorial**
- **List Paired Devices**
- **Working with WiFi**
- **Working with Camera**

Sensor

- **Sensor API**
- **Motion Sensor**
- **Position Sensor**
- **Environmental Sensor**
- **Sensor Values**
- **SensorManager class**
- **Sensor Class**
- **SensorEvent class**
- **SensorEventListener interface**
- **Compass Accelerometer and Orientation Sensors**
- **Sensor Examples**



Android Graphics

- **Graphics API**
- **2D Graphics**
- **android.graphics.Canvas**
- **android.graphics.Paint class**

Android P2P Communication

- **Introducing Instant Messaging**
- **Using the GTalk Service**

- **Monitoring the Roste for Changes**
- **Sending and Receiving Data Messages**
- **Transmitting Data Messages**
- **Receiving Data Messages**

Android Web Services

- **What is web service**
- **Soap Vs Restful web service**
- **Android Restful web service example with java servlet**
- **Storing data into external oracle database**
- **Verifying data in android with external oracle database**

Android Google Map

- **Android Map V2 API**
- **Adding Map**
- **Customizing Map**
- **GoogleMap class**
- **Android Google Map Application**



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