**Topics to prepare for Android Development**

**Android-**

1- **Architecture Pattern**

* MVVM
* Clean Architecture
* VIPER

**2- JetPack**

* Data Binding
* Lifecycles
* LiveData
* Navigation
* Paging
* Room
* ViewModel
* Notifications
* Download Manager
* WorkManager
  + Parallel/Serial task
  + Periodic task

**3-Foundation Components**

* [Android KTX](https://developer.android.com/kotlin/ktx)

**4-Rx Java**

* 3 O’s of RxJava

**5-Network Libraries**

**6-Image Loading Libraries**

* Glide
* Picasso

**7-How to secure your App**

* AES

**8-Updates about latest Android releases and features**

**9-Dagger**

**Core Java**

* Oops Concept
* String
* Exception handling
* Multithreading
* Collection
* Design Pattern
  + Factory
  + Builder

**Kotlin**

* Kotlin Keywords
  + Open
  + Data
  + Late init
  + Var
  + Val
  + Lazy
  + Extension functions
  + Coroutine function
  + Nullable type
  + Elvis operator
  + Constructor
  + Inline and infix function
  + Companion object etc.
* Recursion Function
* Default and Named Argument
* Kotlin Lambdas
* Higher order Function
* Kotlin Inline Function

**Data Structure-**

* Searching techniques
* Sorting techniques
* Array List vs LinkedList
* Custom Array List and LinkedList
* Complexity

**DataBase-**

Basic Queries with Where and & clause

* Insert
* Update
* Delete
* Select