

Syllabus: Android Training Course

Chapter 1: JAVA Concepts

- OOPs Concepts
- Inheritance in detail
- Exception handling
- Packages & interfaces
- JVM
- Multi threading (Thread class & Runnable Interface)

Chapter 2: SQL

- DML & DDL Queries in brief

Chapter 3: Introduction to Android

- What is Android?
- Setting up development environment
- Dalvik Virtual Machine & .apk file extension
- Fundamentals:
 - Basic Building blocks - Activities, Services, Broadcast Receivers & Content providers
 - UI Components - Views & notifications
 - Components for communication - Intents & Intent Filters
- Android API levels (versions & version names)

Chapter 4: Application Structure (in detail)

- AndroidManifest.xml
- uses-permission
- Resources & R.java
- Assets
- Layouts & Drawable Resources
- Activities and Activity lifecycle

Chapter 5: Emulator-Android Virtual Device

- Launching emulator
- Editing emulator settings
- Emulator shortcuts
- Logcat
- Introduction to DDMS

Chapter 6: Basic UI design

- Layouts
 - Relative Layout
 - Table Layout
 - Frame Layout
 - Linear Layout
- Button
- Spinner
- ProgressBar

Chapter 7: Menu

- Option menu
- Context menu
- Popup Menu

Chapter 8: Intents (in detail)

- Explicit Intents
- Implicit intents

Chapter 9: Dialogboxes

- AlertDialogs
- Toast
- Time and Date

Chapter 10: Data Storage

- Shared Preferences
- Internal Storage
- External Storage

Chapter 11: Adapters

- Adapters:-
 - ArrayAdapter
 - BaseAdapters
 - ListView
 - Custom listview
 - GridView

Chapter 12: Notifications

- Android Service Life Cycle
- Broadcast Receivers

Chapter 13: SQLite

- SQLite API
- SQLite Spinner
- SQLite ListView

➤ Examples

Chapter 14: Threads

- Threads running on UI thread (runOnUiThread)
- Handlers & Runnable
- AsyncTask (in detail)

Chapter 15: Advanced

- XML Parsing
- JSON Parsing
- Google Map
- Accessing Phone services (Call, SMS)
- Location based Services

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