

## CORE ANDROID

### Session 1: About & Installation

✓ What is Android?	✓ History of Android
✓ Why Android?	✓ Environment Setup
✓ Features of Android	✓ Installation Android studio

### Session 2: Android Basics & First Project Creation

✓ Android Architecture	✓ Android Activity
✓ Android Services	✓ Android BroadcastReceiver
✓ Android Content Provider	✓ First Hello World Example

### Session 3: Project Structure

✓ Source Folder	✓ Generated Folder
✓ Assets folder	✓ Resources folder
✓ Android Manifest XML	

### Session 4: XML & Layout designing

✓ Layout XML files	✓ Relative Layout
✓ Linear Layout	✓ Frame Layout
✓ Tab Layout	✓ Table Layout

### Session 5 JAVA & Layout designing

✓ Layout java file	✓ Relative Layout
✓ Linear Layout	✓ Frame Layout
✓ Tab Layout	✓ Table Layout

### Session 6: Event Handling

✓ Event Listeners & Event Handlers	✓ Event Listeners Registration
✓ Event Handling Examples	

### Session 7: Activities & Intents

✓ Activity LifeCycle	✓ Implicit intent
✓ Explicit intent	✓ StartActivityForResult

### Session 8: Advanced Views- List and Spinner (simple & custom)

✓ Add value in List-view	✓ Add value in Spinner
✓ Create custom list-view	

### Session 9: Adapting Screen Orientation

✓ What is Screen Orientation	✓ how to use screen orientation
✓ example of screen orientation	

### Session 10: Menus

✓ Adding option menus	✓ Adding popup menus
✓ Adding Context menus	

### Session 11: Thread, Handler , Asyn Task & Dialog

✓ Main Application Threads & Worker Threads	✓ How to use handler class
✓ What is Asyn Task class	✓ Why use Asyn task class

### Session 12: Fragments

✓ Fragment LifeCycle	✓ How to access fragment
✓ adding multiple fragment in activity	

<b>Session 13: Shared Preferences</b>	
✓ What is Shared Preferences	✓ Saving key-value set
✓ get a handle to a shared preferences	✓ read and write shared preferences
<b>Session 14: File Handling</b>	
✓ Reading internal storage	✓ Write internal storage
<b>Session 15: SQLite Database</b>	
✓ Introducing SQLite	✓ SQLiteOpenHelper and creating a database
✓ Opening and closing a database	✓ Working with cursors
✓ Inserts, updates, and deletes	
<b>Session 16: BroadcastReceiver</b>	
✓ Broadcast Receivers	✓ Listening for specified broadcasts
✓ System broadcasts	✓ Custom & User defined broadcasts
✓ Sticky Broadcasts	✓ Pending Intents
<b>Session 17: Services , Notification, Alarm &amp; Vibration</b>	
✓ Lifecycle of a Service	✓ When to use Services
✓ Intent Service	
<b>Session 18: Firebase</b>	
✓ Introduction to Firebase	✓ Real Time Firebase Database
<b>Session 19: SMS Sending &amp; Receiving</b>	
✓ Send SMS	✓ Receive SMS
<b>Session 20: Graphics &amp; Drawing</b>	
✓ Introduction to OpenGL	✓ Scalable 2D /3DGraphics API
✓ Drawables	✓ ShapeDrawable
<b>Session 21: SurfaceView &amp; Sensors</b>	
✓ What is Sensor & SurfaceView	✓ Types of Sensor
✓ Introducing sensor manager	
<b>Session 22: Location &amp; GPS</b>	
✓ Maps and Geocoding	✓ Location based services
<b>Session 23: Web Services &amp; JSON Parsing</b>	
✓ Introduction to JSON file formats	✓ Using Web Services to connect to remote DB
✓ Significance of AsyncTask class	✓ Use JSON for data communication to Web Services
✓ Fetching data from JSON & loading into Activities	
<b>Session 24: Widgets</b>	
✓ Button View	✓ EditText View
✓ TextView View	✓ Image View
✓ Spinner	
<b>Session 25: Android Animation</b>	
✓ Introduction to Animation	✓ Animation Types
✓ Tween Animation	✓ Frame Animation
<b>Session 26: Android Material Designing , Styles &amp; themes</b>	
✓ What is Material Design	✓ how to access material design in our project

✓ creating custom themes	
<b>Session 27: Detecting Gesture</b>	
✓ What is Gesture	✓ Android Detecting gesture example
✓ Project Implementation	

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