







Android App Development Internship

Course Objectives

- 1. Understand Android architecture and core components.
- 2. Learn to design and implement various Android UI layouts and controls.
- 3. Master activity lifecycle management and fragment usage.
- 4. Develop skills in handling user inputs, dialogs, and notifications.
- 5. Perform data storage and retrieval using SQLite and Firebase Authentication.
- 6. Implement animations, multimedia features, and manage app resources effectively.

Prerequisites

- Basic knowledge of Java programming or any object-oriented language.
- Familiarity with programming concepts such as variables, functions, and classes.
- Basic understanding of XML for UI design is helpful but not mandatory.

Tools & Environment

- Android Studio IDE for app development.
- Java Development Kit (JDK).
- Android SDK and Emulator or physical Android device for testing.
- Firebase Console for backend services and authentication setup.

Beyond Objectives Learning

- Build complete, functional Android applications with interactive UI and smooth user experience.
- Manage app lifecycle and state efficiently to optimize performance and battery use.
- Integrate backend services such as Firebase for authentication and data storage.
- Explore advanced Android concepts including custom adapters, animations, and multimedia integration.
- Prepare for entry-level Android developer roles by gaining practical, hands-on experience.

Sr.	Title	Topic	Objective
1	Tutorial 01: Introduction to	Android	Understand Android
	Android from Scratch Hindi	Architecture	architecture and basic concepts
2	Tutorial 02: Android Activity	Activity Lifecycle	Learn the complete lifecycle of
	Lifecycle Complete in Hindi/Urdu		an Android Activity and its
			methods
3	Tutorial 03: Android core	Android Core	Get familiar with the 8 core
	building blocks in Hindi/Urdu	Components	building blocks of Android
4	Tutorial 04: Dalvik Virtual	Dalvik VM and	Understand Dalvik Virtual
	Machine Android in Hindi	Setup	Machine and how to install
			Android Studio with JDK
5	Tutorial 05: Android folder	Project Structure	Learn the folder hierarchy of an
	hierarchy in Hindi/Urdu		Android project and create
			Hello World app
6	Tutorial 06: Linear layout in	Layouts:	Use LinearLayout with
	android using Horizontal and	LinearLayout	horizontal and vertical
	vertical orientation in Hindi/Urdu		orientation
7	Tutorial 07: Relative layout	Layouts:	Learn RelativeLayout with
	tutorial android in hindi	RelativeLayout	examples









Sr.	Title	Topic	Objective
8	Tutorial 08: Table layout in	Layouts:	Understand and implement
	Android Studio in Urdu / Hindi	TableLayout	TableLayout in Android
9	Tutorial 09: Grid layout in	Layouts:	Learn to use GridLayout in
	android studio in Urdu/hindi	GridLayout	Android Studio
10	Tutorial 10: Frame Layout tutorial	Layouts:	Understand FrameLayout and
	in android studio 2020 in	FrameLayout	its uses
	Urdu/Hindi		
11	Tutorial 11: Absolute layout in	Layouts:	Learn AbsoluteLayout and
	android studio in Urdu/Hindi	AbsoluteLayout	usage of layout_x and
			layout_y
12	Tutorial 12: Constraint Layout in	Layouts:	Understand ConstraintLayout
	android studio in Urdu/Hindi	ConstraintLayout	for advanced UI layouts
13	Tutorial 13: What is Toast in	UI Elements: Toast	Learn how to create and use
	Android Studio		Toast messages
14	Tutorial 14: Custom Toast in	UI Elements:	Create custom Toast
	Android Studio using ImageView	Custom Toast	messages with images and
	and TextView		text
15	Tutorial 15: Toggle Button in	UI Elements:	Implement Toggle Buttons
	Android Studio	Toggle Button	and Push Buttons
16	Tutorial 16: Switch Toggle Button	UI Elements: Switch	Understand difference
	in Android Studio	Button	between Toggle and Switch
			Buttons
17	Tutorial 17: Checkboxes in	UI Elements:	Learn how to use Checkboxes
	Android using basic example	Checkboxes	in Android
18	Tutorial 18: Date Picker and	UI Elements: Date	Implement DatePicker and
	DatePickerDialog in Android	Picker	DatePickerDialog with click
	Studio		listeners
19	Tutorial 19: TimePicker and	UI Elements: Time	Learn to use TimePicker
	TimePicker dialog using Analog	Picker	dialog with analog and digital
	and Digital Clock		clock
20	Tutorial 20: AnalogClock	UI Elements: Clock	Understand AnalogClock,
	DigitalClock and TextClock In	Widgets	DigitalClock, and TextClock
2.7	Android With Example	III Flance	widgets
21	Tutorial 21: RatingBar in Android	UI Elements:	Create RatingBar with click
	Studio using Click Event	RatingBar	event
22	Tutorial 22: ProgressBar in	UI Elements:	Use Horizontal and Circular
	Android Studio Hindi/Urdu	ProgressBar	Progress Bars
23	Tutorial 23: SeekBar & SeekBar	UI Elements:	Learn difference between
2.4	Discrete in Android	SeekBar	SeekBar and SeekBar Discrete
24	Tutorial 24: Adapter in Android	Adapters	Understand all types of
	All types of Adapter		Adapters and BaseAdapter
2.5	Tutorial 25, Circula Adamta via	Adapters	with GridView
25	Tutorial 25: SimpleAdapter in	Adapters	Use SimpleAdapter with
3.0	Android using ListView	Adaptors	ListView Croate sustam Simple Adapter
26	Tutorial 26: Simple Custom	Adapters	Create custom SimpleAdapter
	Adapter for listview in Android		for ListView









Sr.	Title	Topic	Objective
27	Tutorial 27: ArrayAdapter with	Adapters	Implement ArrayAdapter with
	ListView in Android Studio		ListView
28	Tutorial 28: Custom ArrayAdapter in	Adapters	Create custom ArrayAdapter
	Android Studio using ImageView and		with ImageView and GridView
	GridView		
29	Tutorial 29: Intent and its types	Intents	Learn about explicit and
	EXPLICIT INTENT IMPLICIT INTENT in		implicit intents in Android
	Android Studio		
30	Tutorial 30: What is Fragment and its	Fragments	Understand Fragment and its
	Life Cycle in Android with example		lifecycle
31	Tutorial 31: Primary Classes of	Fragments	Learn core classes used in
	fragment fragmentmanager		fragments
	fragmenttransaction fragmentactivity		
32	Tutorial 32: Spinner in Android	UI Elements:	Work with Spinner showing
	Studio with Text and Images	Spinner	text and images
33	Tutorial 33: Custom Spinner in	UI Elements:	Create custom Spinner using
	Android Studio using Images	Custom Spinner	ArrayAdapter
34	Tutorial 34: GridView using	UI Elements:	Learn GridView using
	BaseAdapter in Android Studio using	GridView	BaseAdapter
	basic example		
35	Tutorial 35: Part 2 - GridView using	UI Elements:	Continue GridView
	BaseAdapter in Android with Images	GridView	implementation with images
	and activity		
36	Tutorial 36: Horizontal and Vertical	UI Elements:	Implement Horizontal and
	ScrollView in Android Studio basic	ScrollView	Vertical ScrollViews
	example		
37	Tutorial 37: WebView in Android	UI Elements:	Display HTML and websites
	Studio	WebView	in Android app using
			WebView
38	Tutorial 38: Android Alert Dialog Box	Dialogs	Create Alert Dialog with Yes,
			No, and image options
39	Tutorial 39: Custom Alert Dialog Box	Dialogs	Create Custom AlertDialog
4.0	in Android	D. J. M.	with icon, title, and message
40	Tutorial 40: Recyclerview in Android	RecyclerView	Implement RecyclerView with
43	Studio Tetavial 41: Cand Viscoursing	Domest NO	RecyclerView.Adapter
41	Tutorial 41: CardView using	RecyclerView +	Use CardView inside
	Recyclerview and Toolbar in Android	CardView	RecyclerView with Toolbar
42	Studio Tutorial 43: SIMPLE CALCULATOR	Ann	Puild a simple salaulates ass
42	Tutorial 42: SIMPLE CALCULATOR	App	Build a simple calculator app
	APP in Android Studio with FREE	Development	
43	Source Code Tutovial 43: Scientific CALCIU ATOR	Ann	Duild a seignatific selection
43	Tutorial 43: Scientific CALCULATOR	App	Build a scientific calculator
	APP in Android Studio FREE Source	Development	арр
	Code		









Sr.	Title	Topic	Objective
	Tutorial 44: Full Page Slider using	UI	Create a full page slider
44	ViewPager and PagerAdapter in Android	Components	with ViewPager and
	Studio	Components	PagerAdapter
45	Tutorial 45: Slider using ViewAnimator	UI	Implement image slider
	ImageAdapter in Android Studio	Components	using ViewAnimator and
	mage/dapter m/maroid stadio	Components	ImageAdapter
46	Tutorial 46: Tween Animation in Android		Learn Tween animations
	Studio Zoom In/Out, Clockwise rotate,	Animations	like zoom, rotate, blink,
	Blink, Move, Slide		move, slide
47	Tutorial 47: Text to Speech in Android		Implement Text to Speech
	using TextToSpeech.OnInitListener	Multimedia	functionality
	OnltemSelectedListener		·
48	Tutorial 48: Age calculator in Android	App	Calculate age in years,
		Development	months, and days
49	Tutorial 49: Countdown Timer in	Timers	Create Countdown Timer
	Android Studio		app
50	Tutorial 50: Smart Alarm System in	App	Build a simple alarm app
	Android Tetavial 51: [Android Built in Lawret]	Development	using AlarmManager
F 1	Tutorial 51: [Android Built in Layout] –	UI	Use basic activity with
51	Basic Activity in Android Studio using	Components	Snackbar
	Snackbar example		Implement Pottom
52	Tutorial 52: [Android Built in Layout]	UI	Implement Bottom Navigation Bar with
72	Bottom Navigation Bar With Activities	Components	activities
	Tutorial 53: [Validation in Android] -		
53	Registration Form with Validation in	Form	Create registration form
	Android	Validation	with validation
	Tutorial 54: Part 1 - Registration and		
54	Login Form in Android Studio using	Databases	Implement registration and
	SQLite Database Source Code		login using SQLite
	Tutorial 55: Part 2 – Registration and		Add validation to
55	Login Form in Android with Validation	Databases	registration and login with
	using SQLite Database		SQLite
	Tutorial 56: Part 1–CRUD using Sqlite in Android	Databases	Perform Create, Read,
56			Update, Delete operations
	Allarola		using SQLite
57	Tutorial 57: Part 2-CRUD using Sqlite in	Databases	Continue CRUD operations
١٠/	Android	Databases	with SQLite
58	Tutorial 58: Part 1-CRUD with image in	Databases +	CRUD operations including
	android Studio	Media	image handling
59	Tutorial 59: Part 2-CRUD with image in	Databases +	Continue CRUD with image
	android Studio	Media	handling
60	Tutorial 60: Firebase Authentication in	Firebase	Implement Firebase
	Android	Authentication	Authentication in Android









Minimum Completion Criteria:

- Complete all modules and MCQs
- Attempt weekly marathons
- Submit at least 2 out of 5 projects in the final level
- Attend minimum 80% of lessons

Certificate Details

• Upon successful completion of the Internship, learners will receive a Government-Recognized Certificate from Vidyawan, a registered MSME enterprise (*Udyam Registration No: UDYAM-WB-14-0205610*).





One Month Internship Certificate

Weekly Marathon Participation Certificate

Performance-Based Badge System

- Gold Badge For Top Performers (90%+ score, completed 4+ projects)
- Silver Badge For consistent performance (70–89%)
- Copper/Participant Badge For all learners who complete the program

Contact Information

For queries, registration, or collaboration, feel free to contact us: Vidyawan – Internship & Skill Development Platform (A Government-registered MSME – UDYAM-WB-14-0205610)

- Email: contact.vidyawan@gmail.com
- Website: www.vidyawan.in (Get in touch section)
- Location: West Bengal, India
- Follow us for updates and upcoming internships