Υ

0

N

	val, var, lateinit & lazy		
kotlin	initialization	Y	Advanced
	Features of Kotlin	Υ	Intermediate
	DataTypes, Operators & Loops	Υ	Advanced
	Null Safety	Υ	Advanced
	Functions & Constructors	Υ	Advanced
	1) Higher Order Function	Y	Advanced
	2) Inline Function	Υ	Advanced
	3) Kotlin Lambdas	Υ	Advanced
	4) Kotlin Extension Function	Υ	Advanced
	Data Class & Sealed Class	Υ	Advanced
	String class and its extenstion functions	Υ	Intermediate
	Interfaces	Y	Advanced
	Collections(Array, List, Map, Set)	Υ	Advanced
	Exception Handling	Υ	Advanced
	Coroutine	Y	Intermediate

		T		
Android studio	IDE overview		Y	Intermediate
	Project structure		Υ	Advanced
Android components	Activity	Lifecycle	Υ	Advanced
		Task & Backstack	Υ	Advanced
	Services		Υ	Advanced
	Broadcast receivers		Υ	Intermediate
	Content Providers		Υ	Intermediate
	Intent	Explicit & implicit intent	Υ	Intermediate
		Intent Filters	Υ	Intermediate
	UI	LinearLayout & RelativeLayout	Y	Intermediate
		ConstraintLayout	Υ	Advanced
		CoordinatorLayout	Υ	Intermediate
		MotionLayout	Υ	Beginner

		I	I	
Custom U	Ji Views	Canvas	Υ	Beginner
		Bitmap	Υ	Advanced
		Paint	Υ	Beginner
UI reso	urces	Drawables	Υ	Advanced
		Strings	Υ	Advanced
		Styles	Υ	Advanced
Fragn	nent	Lifecycle	Υ	Advanced
		Backstack	Υ	Advanced
Bui	ld	Gradle	Υ	Advanced
		Debug/ Release configuratiin	Υ	Advanced
		Flavours	Υ	Advanced

Thread	ing Thread	Υ	Intermediate
	Handler/Looper	Υ	Intermediate
	ThreadPoolExecutor	Υ	Beginner
Debugg	ging Memory profiling	Y	Intermediate
	Logging	Y	Intermediate
	Systrace	Y	Intermediate
	Exceptions	Y	Intermediate
	Error Handling	Υ	Intermediate
Memory	Detecting and Fixing leak Memory Leaks	Y	Intermediate
	Context	Υ	Intermediate
Third Pa		Υ	Advanced
	Glide	Y	Advanced
	Picasso	Y	Advanced

	1		
	Fresco	Υ	Beginner
	Coil	Υ	Beginner
	Universal Image Loader	Υ	Beginner
Coroutine	coroutines	Υ	Intermediate
	suspend	Υ	Intermediate
	launch,async-await, withContext	Υ	Intermediate
	dispacthers	Υ	Intermediate
	scope,context,job	Υ	Intermediate
	lifecycleScope, viewModelScope,	Υ	Intermediate
	suspendCoroutine, suspendCancellableCoroutin	Υ	Intermediate
	coroutineScope, supervisorScope	Υ	Intermediate
Kotlin Flow API	Flow Builder, Operator, Collector	Υ	Intermediate
	flowOn, dispatchers	Υ	Intermediate
	Operators such as filter, map, zip, flatMapConcat,	Υ	Intermediate

	Terminal Operators	Υ	Intermediate
	Cold Flow vs Hot Flow	Υ	Intermediate
	StateFlow, SharedFlow, Callback Flow,	Υ	Intermediate
	ChannelFlow	•	Intermediate
Data formats	Json	Y	Advanced
	Gson	Υ	Advanced
	Protocol Buffer	Υ	Beginner
	Flat Buffer	Y	Beginner
Networking	GET/POST/DELETE/PUT/PAT CH	Y	Intermediate
	OKhttp, Interceptor	Υ	Intermediate
	Caching	Υ	Intermediate
	Retrofit with Coroutines/Flow	Υ	Intermediate
	Multipart Request	Υ	Intermediate
	Read, Write Timeout	Υ	Intermediate

		OAuth 2.0 - Refresh and Access Token	Υ	Intermediate
		HTTP Status Codes	Υ	Intermediate
Android jetpack	1 -Foundation components	AppCompat	Υ	Advanced
		Android KTX	Υ	Advanced
		Multidex	Υ	Intermediate
	2 -Architecture components	LiveData	Υ	Intermediate
		View Model	Υ	Intermediate
		DataBinding	Υ	Intermediate
		Paging	Υ	Intermediate
		Work Manager	Υ	Intermediate
		Navigation	Υ	Intermediate
	3 -Behaviour Components	Download Manager	Υ	Intermediate
		Media Playback	Υ	Intermediate
		Notification	Υ	Intermediate

	Permissions	Υ	Intermediate
	Preference	Υ	Intermediate
	Sharing	Υ	Intermediate
	Slice	Υ	Beginner
4 - UI Component	Animation & Transition	Υ	Intermediate
	Android Auto	Υ	Intermediate
	Emoji	Υ	Intermediate
	Palette	Υ	Intermediate
	Android TV	Υ	Advanced
	Android Wear	Υ	Beginner
Compose	State: remember, rememberSaveable,	0	Intermediate
	Recomposition	0	Intermediate
	State hoisting	0	Intermediate
	Side-effects	0	Intermediate
	Modifier	0	Advanced

	1	T		
		Theme	0	Advanced
		Layout, List	0	Intermediate
		Gestures, Animation	0	Advanced
		CompositionLocal	0	Advanced
Common	Common Design	Builder Pattern	Υ	Advanced
		Singleton	Υ	Advanced
		Dependency Injection	Υ	Advanced
		Factory	Υ	Advanced
		Observer	Υ	Advanced
		Repository	Υ	Advanced
	Architecture	MVC	Υ	Advanced
		MVP	Υ	Advanced
		MVVM	Υ	Intermediate
		MVI	0	Intermediate
		Clean	Υ	Advanced
	Unit Testing	Local Unit Testing	Υ	Advanced
		Instrumentation Testing	Υ	Advanced

	Т		T
firebase	FCM	Υ	Advanced
	Crashlytics	Υ	Advanced
	Analytics	Υ	Advanced
	Remote Config	Υ	Advanced
	App Indexing	Υ	Advanced
	Dynamic Link	Υ	Advanced
	Authentication(Google,	Υ	Advanced
Security	Encrypt/Decrypt	Υ	Advanced
	Proguard	Υ	Advanced
	R8	Υ	Advanced
App releases	.Keystore File	Υ	Advanced
	App Bundle	Υ	Advanced
	Playstore	Υ	Advanced

Legend

Must Have

Good to have

Not required