

No	Module	Topic	Details	Horus
1	Kotlin Basics	Overview		
2		Environment Setup		
3		Linux Ubuntu setup		
4		First Programme		
5		Architecture		
6		Basic Types	Data Types, Type Conversion, Variables, Operators, Comments	
		Coding Convention	Naming Rules, Formatting, Doc Comments, Avoid Redundant constructs, Coding Convention for Libraries	
7		Input / Output		
8		Control Flow	if, if-else, when, for, while, do-while, return, break, continue	
9		Functions	Kotlin Functions, Recursive Functions, Default & Named Arg, Kotlin Lamdas, Higher Order Functions, Inline Functions	
10		Array		
11		String		
12		Null Safety		
		Type Aliases		
13		Exception Handling	Kotlin Try Catch Multiple Catch Block Nested Try Block Kotlin Finally Block Kotlin Throw Keyword	
14		Collections	Collection Overview, Constructing Collection, Mutable Array Kotlin ArrayList Kotlin Collections List Operations, Set Operations, Map Operations Sequences Iterators Transformations Filtering Grouping, Retriving Collection Parts, Retriving Single Elements, Ordering, Plus – Minus Operators, Aggregate Operations,	
15		Class & Objects	Class, Object, Nested Class, Inner Class, Inline Classes	
16		Constructors		
17		Inheritance	Inheritance, Abstract Class	

Sheet1

18	Kotlin Object Oriented	Interface		
19		Visibility Control		
20		Extension Function		
21		Data Classes		
22		Sealed Classes		
23		Generics		
24		Delegation		
25		Destructuring and Declarations	Destructuring and Declarations, Type Checks and Casts 'this' expressions, Equality, OperatorOverloading,	
26		Ranges	Integer Type Range, Kotlin Working Range, Kotlin Utility Function	
27		Regex	Regex Expression Regex Pattern	
		Annotation & Reflection		
28	Kotlin with Android	Installing Android Studio	Steps, Configure, First App – Hello World Getting Started	
29		TextView, Edit Text		
30		Toast		
31		Button		
32		Custom Toast		
33		Intent	Explicit Implicit	
34		ListView		
35		Alert Dialog		
36		Context Menu		
37		Custom ListView		
38		Option Menu		
39		Popup Menu		
40		WebView		
41		SeekBar		
42		TabLayout with FrameLayout		
43		TabLayout with ViewPager		
44		Dom Parser		
45		SAX Parser		
46		XMLPullParser		
47		JSON Parsing using URL		
48		Android Media Player		
49		External Storage		
50		Internal Storage		
51		SharedPreferences		
52		SQLite		
53		Android Notification		
54		Google reCAPTCHA		
55		Authenticaiton – Google Login		

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<https://kotlinlang.org/docs/>

tutorials/kotlin-android.html