

LESSON PLAN

Subject: Programming with Kotlin

Subject Code: MCA-20-35(iii)

Semester-III

S.No	Topic	No. of Lectures	CO Covered	Teaching Methodology
1	Introduction to Kotlin, Environment setup	1	CO1	PPT
2	Kotlin Architecture, Program entry point	1		PPT
3	Kotlin-Comments, Keywords	1		Board
4	Kotlin-Variables	1		PPT
5	Data types, Operators	1		PPT
6	Handling of Strings	1		Board
7	Array- Generic Array, Array of Primitives	2		PPT
8	List Interfaces-Mutable List	1		PPT
9	Map Interface	1		PPT
10	Set Interface	1		Board
11	Ranges, Null safety	1		Video
12	Nullable and Non-nullable types	1		PPT
13	Elvis Operator	1		Board
14	Conditional Statements: if, when	1	CO2	PPT
15	Loops in Kotlin: for	1		PPT
16	Repeat, While	1		Board
17	Break and Continue.	1		PPT
18	Functions: Inline Function	2		PPT
19	Lambda Functions	1		Board
20	Repeat, while	2		PPT
21	Function Reference	1		PPT
22	Vararg parameters in Functions	1		Video
23	Class: Final class, open class	1		CO3
24	Inheritance: inheriting methods and fields from a class	1	PPT	
25	Overriding properties and methods	1	PPT	
26	Visibility modifiers, Abstract class	1	Board	
27	Data Class, Enum class	1	PPT	
28	Sealed class, Nested class	2	Video	
29	Inner class, Interfaces	1	PPT	
30	Programming asynchronous applications with Coroutines	2	PPT	

31	Annotations	1		Video
32	Exception Handling: Try, Catch	1	CO4	PPT
33	Finally block, Throw	2		PPT
34	Android development using Kotlin. Views: TextView, EditText, ScrollView, ImageView, ListView, RecyclerView etc	2		Video
35	Android UI Layouts: Linear, Relative and Constraint	1		Video
36	Creating Activities, Intents and Fragments.	1		PPT