

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
(FOR WOMEN)

Android Development with Kotlin – Classroom Course
(GNITS/IT/VAC/2021-22/1)

III Year B.Tech. IT I-Sem

Prerequisites:

- Basic knowledge in Object Oriented concepts and Object Oriented Programming.

Objectives:

- To introduce Kotlin Programming language for developing mobile applications
- To introduce Android Application Development
- To introduce Layout and Widget Controls in the User Interface

Syllabus:

UNIT I

Get Started with Kotlin: Kotlin basics, Functions, Classes and Objects

UNIT II

Introduction to Android: Build your first Android app, Layouts, App navigation

UNIT III

Android app architecture: Activity and fragment lifecycles, App architecture (UI layer), App architecture (persistence), Advanced RecyclerView use cases, Connect to the internet, Repository pattern and WorkManager

UNIT IV:

Android app Design: App UI design

ONLINE RESOURCES :

1. <https://developer.android.com/courses/android-development-with-kotlin/course>
2. <https://developer.android.com/studio/intro>

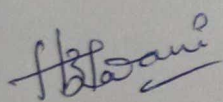
Course Outcomes(COs)


Course Name: Android Development with Kotlin – Classroom Course	
CO1	Understand Kotlin basics, Object Oriented Kotlin Programming and install IntelliJ IDE
CO2	Install Android Studio and SDK Packages, Configure, build and run Android Applications on AVD's and Smartphones
CO3	Create Interactive Applications using different Layouts and Widget controls, Activities and Fragments
CO4	Build applications based on Android Application Architecture
CO5	Develop applications to access data from internet, create repository and use WorkManager
CO6	Apply basic app design guidelines, styles, themes and material design and create applications

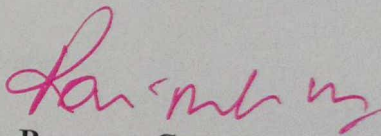
Mapping of Course Outcomes (COs) with Program Outcomes (POs)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	-	1	-	3	-	-	-	-	-	-	-	-	3
CO2	-	-	2	-	3	-	-	-	-	-	-	-	3	3
CO3	-	3	3	3	-	-	-	-	1	-	-	-	3	3
CO4	-	2	2	2	3	-	-	-	1	-	-	-	3	3
CO5	-	-	2	-	3	-	-	-	1	-	-	-	3	3
CO6	3	-	3	-	3	-	-	-	1	-	-	-	3	3

Assessment Method: 100% Pathways Completion which includes Code lab Activities and Quizzes


Course Coordinator:
M. Bhavani
 Asst. Professor
 Dept. of IT


Module Coordinator
C. Sudhakar Reddy
 Accos. Professor
 Dept. of IT


Program Coordinator
Dr. I. Ravi Prakash Reddy
 Professor & HOD IT

G.NARAYANANMA INSTITUTE OF TECHNOLOGY AND SCIENCE

Department of Information Technology
 ANDROID DEVELOPMENT WITH KOTLIN

Attendance List

2/11/22

S.No	Hall Ticket Number	Students Name	2/11	24/11	5/10	26/10	2/11	16/11	23/11	30/11	2/12	14/12	21/12	28/12
1	18251A1204	Smitha Rao Sunki												
2	18251A1207	C. K. Shrivani												
3	18251A1217	Chitra Kampelli												
4	18251A1230	Harshitha Vegesna												
5	18251A1271	Varsha												
6	18251A1292	A. Prathyusha												
7	18251A12A4	J.Saisha												
8	18251A12A5	Ranya kalakonda												
9	19251A1202	Aishwarya Dhande												
10	19251A1203	A.Manaswini												
11	19251A1205	B. Saraswathi												
12	19251A1206	Bhagat Prakrisha												
13	19251A1207	Ambika Bongirwar												
14	19251A1208	Lavanya												
15	19251A1209	Dabbei. Tejaswi												
16	19251A1210	Dasari Lavanya												
17	19251A1211	Shivani Dhanaram												
18	19251A1213	Madhulika												
19	19251A1215	Tanmayi Gajadi												
20	19251A1216	Guggilla Sreeneha												
21	19251A1217	K.Esha Reddy												
22	19251A1218	Manasvi Rao												
23	19251A1219	K. Sai Priya												
24	19251A1220	Kadicherla Tejaswi												
25	19251A1221	Kamaneeya Kadari												
26	19251A1222	K. Sahithya												
27	19251A1223	Mehak Jain												

HBS

100	19251A1240	Paka Jayamadhuri																	
101	18251A1241	Y. Manasvi	che	che	che	che	che	che	che	che	che	che	che	che	che	che	che	che	che
102	19251A1237	N Chandra kumari	che	che	che	che	che	che	che	che	che	che	che	che	che	che	che	che	che
103	19251A1250	Saamya Gorantala	che	che	che	che	che	che	che	che	che	che	che	che	che	che	che	che	che
104	19251A1259	Vanamala. Viswa lekha	che	che	che	che	che	che	che	che	che	che	che	che	che	che	che	che	che
105	19251A1288																		
106	19251A1295																		
107	19251A12A5																		
108	20255A1203	U. pujiitha																	
109	20255A1210	Niharika																	
110	19251A1240	Paka Jayamadhuri	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay	P. Jay

21/9 28/9 5/10 22/10 2/11 16/11 23/11 30/11 7/12 14/12 21/12 28/12 4/1/22

H. B. Sani

**G. Narayanamma Institute of Technology & Science (For Women)
(Autonomous)
Department of Information Technology**

Report on Value Added Course

Event Name : Value Added Course on Android Development on Kotlin

Date(s) : 21/09/2021 to 28/12/2021

Coordinator : M. Bhavani

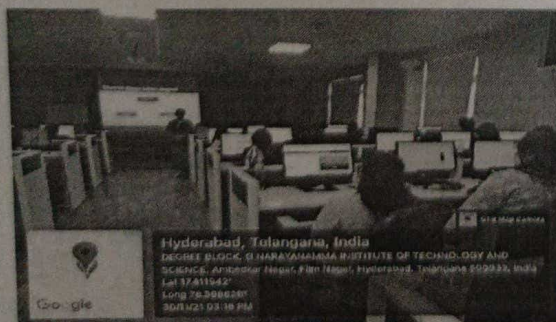
Resource Persons : M. Bhavani

Budget/expenditure : NIL

No. of Participants : 108

Brief Description : Value Added Course on Android Development with Kotlin is designed to enhance the students coding skills and develop the android applications using kotlin.

The course was conducted with hands-on session code labs to configure and build various applications using recycler view, view model and room database.



M. Bhavani
Coordinator

HOD