

FACULTY	OF	COMPUT	ER	APPLICATIONS	3
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Programme	BCA Honors		Branch/Spec.	Computer Applications			
Semester	V		Version	1.0.0.0			
Effective from Academic Year		2026-2027	Effective for the Admitted in	June 2024			
Subject Code	U35A1FAD	Subject Name	FUNDAMENTALS OF ANDROID DEVELOPMENT				

	16	acining	SCILE	me	Examination scheme (marks)				
(Per week)	Lectu re (DT)		Cal		Tot al		CE	SEE	Tot al
	L	TU	P	TW					
Credit	2		2		4	Theory	50	50	100
Hours	2		4		6	Practical	-	-	-

Objectives:

Develop strong mobile apps and discover how to incorporate them with other services. utilizing Android services and components to create dependable, user-friendly mobile applications. Provide a fluid user experience that adapts to various mobile screen sizes.

Pre-requisites:

The two primary programming languages utilized in the creation of Android apps are Java and XML. Therefore, proficiency with these programming languages is a need for creating an Android app.

Course Outcomes:

Name of CO	Description
CO1	Understand the Android platform's Architecture and setup environment to build basic apps.
CO2	Understand core Android components like Activities, Intents, Services, and Broadcasts.
CO3	Design user-friendly interfaces using various layouts, UI components, and event-handling mechanisms.
CO4	Integrate multimedia features and menus in Android applications.
CO5	Develop data-driven Android apps using file handling, shared preferences, and SQLite.

					Ma	pping	of CO	and P	O			
Cos	PO1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO12
CO 1	3	3	3	1	3	1	2	0	2	1	2	1

CO 2	3	3	3	1	3	1	2	1	3	1	2	1
CO 3	2	3	3	1	3	1	2	2	3	1	2	1
CO 4	2	2	3	1	3	1	2	2	2	1	2	1
CO 5	3	3	3	1	3	1	3	2	3	1	2	1
Conte	nt:											

CO 5	3	3	3	1	3	1	3	$\begin{vmatrix} 2 \end{vmatrix}$	3	1	2		
Conte	ent:												
Uni t													Hrs
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2	Activ Broa		d Activ	ity Life							ervices ar dgets ar		6
3	Graphical User Interface Screen with views Layouts: Linear, Relative, Table, Frame, ScrollView, UI components: Buttons, TextViews, EditTexts, ImageViews, CheckBoxes, RadioButtons, Spinners, Getting Dates and Times from Users, Event handling and listeners, Dialogs and Toasts, Using Indicators to Display Data to Users,									6			
4	Structure and Working with Menus and Multimedia Structure of Android Application, Define Menu, types of Menus, Capturing images using the camera, displaying images and animations, Playing audio and video files								6				
5	Data	abase											6
	Android Internal Storage, File, read-write in file, Data - saving, retrieving, and loading: Overview to storing data in file, Shared preferences, SQLite primer, store data using SQLite database, Crud (Create, read, delete and update) in database. Publish your app												
Pract	ical Con	tent:											
List of	f practic	al specif	ied by	the su	bject t	eacher	based	on ab	ove me	entioned	l topics		
Text 1	Books:												
1			droid	Applic	cation	Devel	opmer	t By V	Vei-Me	ng Lee,	Wrox Pu	ıblicat	tion
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2		Android			-			bhiAnd	droid				
Web I	Referenc	-	-										
1	https://developer.android.com/courses/android-basics-kotlin/course												
2	https://www.my-mooc.com/en/categorie/android-development												
3	https:/	/online	courses	s.nptel	l.ac.in/	<u>/noc20</u>	_cs52	/previe	<u>ew</u>				

Question Paper Scheme:	
End Semester Examination Duration: (2 Hours Theory Examination)	
Note for Examiner: -	
Q-1 Any Five out of Seven (25 Marks)	
O. 2. Any Type out of Three (06 Montre)	

Q-2 Any Two out of Three (06 Marks)

Q-3 Mandatory question (05 Marks)

Q-4 Any Two out of Three (08 Marks)

Q-5 Any Two out of Three (06 Marks)

The question paper must comprehensively address all Course Outcomes (COs), align Taxonomy levels, and ensure complete syllabus coverage.

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4	https://www.coursera.org/learn/aadcapstone
	https://www.mooclab.club/resources/java-fundamentals-for-android-
5	development.1218/