ANDROID PROGRAMMING

Semester	Subject Code	Category	Lecture Hrs		Theory Hrs		Practical		Credits
			Per week	Per Sem	Per week	Per Sem	Per week	Per Sem	
VI		Core Theory-7	6	90	6	90	0	0	4

COURSE OBJECTIVE

This paper help us to understand the concept of Mobile Application Development in Android Operating System.

COURSE OUTCOME

On successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level (K1-K4)
CO1	To study the Architecture, Evolution and Features in Android	**K1**
CO2	To learn about life Cycle of Android	**K2**
CO3	To develop User Interface	**K3**
CO4	Uses of Intents and dialogs	**K3**
CO5	To learn about Android Databases	**K4**

Knowledge Level – K1-Remember, K2- Understand, K3-Apply, K4-Analyze

MAPPING WITH PROGRAMME OUTCOME

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO1	S	M	M	M	S	S
CO2	M	S	M	S	S	M
CO3	S	S	S	L	M	S
CO4	S	M	S	M	S	L
CO5	S	M	S	M	S	M

S-Strong, ***M-Medium,*** ***L-Low***

SYLLABUS

UNIT –I History of Embedded Device **18 hrs**

History of Embedded Device Programming - Open Handset Alliance - Introduction to Android - Features and Architecture of Android - Evolution of Android

UNIT –II Types of Android Applications **19 hrs**

Types of Android Applications - Android Design Philosophy - Android Development Tools - Building blocks of Android Application - Resources - Android Application Life Cycle - Android Activity Class.

UNIT –III Fundamental of Android **17 hrs**

Fundamental Android User Interface design - Introducing Views - Layouts - Creating new Views - Menus.

UNIT-IV Intents **17 hrs**

Introducing Intents - Adapters - Using Internet Resources - Introducing Dialogs.

UNIT -V Techniques For Saving Data **18 hrs**

Techniques for saving data - Saving and Loading Files - Databases in Android - Introducing Content Providers.

Distribution of Marks: Theory 80% and Applications: 20%

TEXT BOOKS

S.No	Authors	Title	Publishers	Year of Publication
1	Jerome Di Marzio	Android: A Programmer's Guide	Tata McGraw Hill	2010.

REFERENCE BOOK

S.No	Authors	Title	Publishers	Year of publication
1	Reto Meier, Wiley	Professional Android 4 Application Development	John Wiley & Sons Inc	2012
2	Dawn Griffiths	Head First Android Development	O'Reilly Media Inc	2015
3	Mark L. Murry	Busy Coder's Guide To Android Development	Common Ware LLC	2011
4	Kristin Marsicano, Brian Gardner,Bill Phillips and Chris Stewart	Android Programming	Pearson Education	2019
5	John Horton	Android Programming for Beginners	Packt Publishimg	2015
6.	KARIM YAGHMOUR	Embedded Android: Porting, Extending, and Customizing	Shroff/O'Reilly; First edition	2013
7	Roger Ye	Android System Programming	Packt Publishing Ltd	2017
8	Marko Gargenta and Masumi Nakamura	Learning Android: Develop Mobile Apps Using Java and Eclipse	O'Reilly Media;	2011

WEB RESOURCES

1. http://www.android.com/mobile application development/

2. https://www.javatpoint.com/android-tutorial

3.https://www.tutorialspoint.com/android/index.htm

TEACHING METHODOLOGY

Class room teaching. Group discussions Seminars

Demo using systems Chart/Assignment Simulation

Model Smart Class room

SYLLABUS DESIGNER

1. Mrs. G.SANGEETHALAKSHMI , Assistant Professor and Head, Department of Computer Application
2. Mrs. N.AMBIGA, Assistant Professor, Department of Computer Application