

# Bapatla EnginEEring CollEgE::Bapatla

### (Autonomous)

## **Department of Information Technology**

Subject Name:- <b>Mobile Application Development</b> III B. Tech. – V Semester (Code: 20CS605 / 20IT505)										
Lectures		:	3 Hours/Week	:	30					
Final Exam		:	3 hours	Final Exam Marks	:	70				
Pre-Requisite: Java Programming(20CS303) /Object Oriented Programming (20IT303)										
Course Objectives:										
CO1	Understand the Android Application Architecture and Working.									
CO2	Understand how to develop android applications and internal working of applications									
CO3	Understand Intents, Broadcast Receivers, State and User Preferences and Databases in									
	Android Apps.									
CO4	Understand to develop applications Content Providers, Services and Advanced Views.									
Course Outcomes: Students will be able to:										
CLO-1	Interpret and Analyze the Android platform features and framework.									
CLO-2	Design basic User Interfaces using Activities, Fragments.									
CLO-3	Apply Intents, Broadcast Receivers, State, User Preferences and Database in Android									
	Apps.									
CLO-4	Develop Android apps using Content Providers, Services and Advanced UI controls.									

Learning Outcome, Program Objectives & Program Specific Objectives Mapping															
	POs										PSOs				
LO	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
20CSL605.1	1	2		1									2		
20CSL605.2	1	2	3	1	1					1			1	2	1
20CSL605.3			3		2		1			1		1	2	2	1
20CSL605.4	1	1	2		2		1			1		1	2	2	1



### Bapatla EnginEEring CollEgE::Bapatla

#### (Autonomous)

### **Department of Information Technology**

	UNIT-1	(15 Hours)					
Hello, Androi	Hello, Android:-Android: An Open platform for Mobile development, Android SDK Features,						
	Introducing the Development Framework.						
<b>Getting Starte</b>	Getting Started:-Developing for Android, Developing for Mobile and Embedded devices.						
	UNIT-2	(15 Hours)					
Creating Applications and Activities:-Components of an Android Application, Introducing the							
Application Manifest File, The Android Application Lifecycle, A Closer Look at Android							
Activities, Creating Activities, The Activity Lifecycle, Activity States Android Application class,							
Android Activities.							
Building User Interfaces:- Fundamental Android UI Design, Android User Interface							
Fundamentals, Introducing Layouts, Introducing Fragments.							
	UNIT-3	(15 Hours)					
Intents and Broadcast Receivers:-Introducing Intents, Creating Intent Filters and							
Broadcast Rece	eivers.						
Saving State and User Preferences:-Creating and Saving Shared Preferences,							
Retrieving Shared Preferences Persisting the Application Instance State.							
Creating and Using Databases: Working with SQLite Databases.							
	UNIT-4	(15 Hours)					
Content Providers:- Creating Content Providers, Accessing Content Providers, using Native							
Android Content Providers.							
Working in the Background:- Creating and Controlling Services, Binding Services to Activities							
<b>Expanding the User Experience:-</b> Introducing the Action Bar ,Creating and Using Menus and							
Action Bar Action Items.							
Text Books:	1. Professional Android, Reto Meier and Ian Lake, 4 <sup>th</sup> Edition, Jo	ohn Wiley &					
	Sons, Inc. 2018.ISBN: 978-1-118-94952-8.						
<b>References:</b>	1. Android Programming: The Big Nerd Ranch Guide, Brian	n Hardy & Bill					
	Phillips, Big Nerd Ranch, Inc.						

O'Reilly Publications.

2. Head First: Android Development, Dawn Griffiths & David Griffiths,