

Class : B. C.A. / B.Sc. C.S. SY Sem-III
Course Title :- Android Operating System
Course Code:- U-ADC-334-A

Total Teaching Hours: 50

Total Marks: 50

Credit: 2

Learning Objective:-

This course is designed to learn basics of Android operating system, XML , and basic concepts of java programming like Classes, Packages, Thread, Exception Handling etc.

Course Outcome:-

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

- Write xml code to design android controls ,
- Write java programs with object oriented features, they should create their own packages and able to access created packages.

Syllabus

Unit –I :- Android History and Scope

17

Chapter 1. Introduction to Android

- 1.1 Need of Mobile Application
- 1.2 Introduction to Android
- 1.3 Types of Mobile Applications
- 1.4 Android Versions

Chapter 2. Android Architecture

- 2.1 Android Architecture
- 2.2 Linux Kernel
- 2.3 Dalvik Virtual Machine

UNIT –II:-IDE's and Java Basic

10

Chapter 3. Android IDE's & Components

- 3.1 Various IDE for Android
- 3.2 Installation of Android
- 3.3 Android Virtual Device
- 3.4 Android Components

Chapter 4. Introduction To Java

- 4.1 Introduction & History of Java
- 4.2 Java Applications
- 4.3 Java Architecture

Unit – III:- Java Programming

Chapter 5. Programming Basics

8

- 5.1 Variable, Constants
- 5.2 Hello World Program
- 5.3 Classes & Inheritance
- 5.4 Interface

Unit –IV:- Packages & UI Designing

15

Chapter 6. Java Packages & Threads

- 6.1 Packages
- 6.2 Thread
- 6.3 Exception Handling
- 6.4 Method Overloading

Chapter 7. XML & Json

- 7.1 Tag ,Attribute
- 7.2 XML
- 7.3 Json

Reference Books:-

1. The Complete Reference Java2 By Herbert Schildt
2. Java CookBook By Ian Darwin, Publisher O'Reilly