CSE225:DEVELOPING ANDROID APPS

L:2 T:0 P:2 Credits:3

Course Outcomes: Through this course students should be able to

CO1 :: develop apps in android environment using UI components

CO2 :: outline code to perform future or asynchronous operations in android apps

CO3 :: compare and contrast usage of fragments over activities for in-app transitions

CO4 :: construct interactive user Interfaces using views and custom views

CO5 :: recommend persistent storage to store data

CO6 :: illustrate working of single activities on an app using effective navigation

Unit I

Views & Component : Scroll View, Toolbar, Rating Bar, Splash Screen, Progress Bar, Footer, Custom Toast

Unit II

Intents & Scheduler : Intents, Pending Intents, Alarm Manager, Job Scheduler, Notification

Unit III

Fragments & Pickers : Fragments- Static and Dynamic Addition, Data Transfer/Communication between Fragments, Date Picker Dialog, Time Picker Dialog

Unit IV

Custom Views : Extending Views, Custom Views from Scratch

Unit V

Data Storage : Shared Preferences, Internal Storage, External Storage

Unit VI

Implementing Effective Navigation : Creating Swipe Views with Tabs, Creating Navigation Drawer, View Pager

List of Practicals / Experiments:

List of Practical

- Create an application based on different Views & Components.

- Create an application based on Intents & Different Schedulers.

- Create an application based on Fragments & Date-Time Picker.

- Create an application to implement Custom Views.

- Create an application based on different Storage Options.

- Create an application to implement different types of Navigation.

Text Books:
1. ANDROID APPLICATION DEVELOPMENT ALL-IN-ONE FOR DUMMIES by BARRY BURD, JOHN PAUL MUELLER, WILEY

References:
1. ANDROID APPLICATION DEVELOPMENT by BARRY BURD, WILEY

2. ANDROID APPLICATION DEVELOPMENT by PRADEEP KOTHARI, DREAMTECH PRESS