

## CSE225: DEVELOPING ANDROID APPS

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

**Course Outcomes:** Through this course students should be able to

- CO1 :: list the appropriate UI components as per apps software design requirements
- CO2 :: outline code to perform future or asynchronous operations in android app
- 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 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. BEGINNING ANDROID PROGRAMMING WITH ANDROID STUDIO by J. F. DIMARZIO, WILEY

### References:

1. ANDROID APPLICATION DEVELOPMENT ALL-IN-ONE FOR DUMMIES by BARRY BURD, WILEY