

CSE226:ANDROID APP DEPLOYMENT

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

Course Outcomes: Through this course students should be able to

- CO1 :: reorganize the interactive user interfaces using view
- CO2 :: analyze code to perform long running operation in background
- CO3 :: compose an interactive and delightful Android app
- CO4 :: illustrate database to store application data with SQLite and Room Database
- CO5 :: practice visualization of appropriate Location, Geo features and apply to make app more attractive
- CO6 :: develop the apps, testing and uploading of app on play store

Unit I

List and Recycler View : Custom List View, Custom Grid View, Recycler View, Card View

Unit II

Background Processes : Asyn Task, Services, Broadcast Receiver

Unit III

Delightful User experience : Drawables, Styles & Themes, Card and Color, Floating Action Buttons

Unit IV

Storage Options : SQLite Database, Room Database

Unit V

Location and Maps : User's current Location, Google API for Maps-Geo coding and Reverse geo coding

Unit VI

Testing and Deployment : Debugging, Unit Test and Espresso Test, Steps to upload app on Google play

List of Practicals / Experiments:

Drawables

- Create an application based on different style, themes and Floating action button.

Database

- Create an application based on SQLite and Room Database.

Maps

- Create an application which will display map in the application.

List view and Recycler View

- Create an application based on Recycler view , Custom List and Grid view.

Background Process

- Create an application based on Bounded and Started services, Broadcast Receiver

Testing :

- Implement the unit testing on the applications.

References:

1. BEGINNING ANDROID PROGRAMMING WITH ANDROID STUDIO by J. F. DIMARZIO, WILEY

