

Prasad V. Potluri Siddhartha Institute of Technology:: Vijayawada.
Department of Computer Science and Engineering

I/II M.Tech. (CSE) (Second Semester)

17CSCS2L1 MOBILE APPLICATION DEVELOPMENT LAB Credits: 2

Lecture: 3 Periods/week

Internal Assessment: 25 Marks
Semester end examination: 50 Marks

Course Description:

This course examines the principles of mobile application design and development on the Android platform. Topics include user interface design, user interface building, input methods, data handling, network techniques and URL loading. Course work will include project conception, design, implementation, and pilot testing of mobile phone software applications.

Course Outcomes:

At the end of this course the graduate is able to:

CO1: Apply essential Android Programming concepts.

CO2: Develop various Android applications related to layouts & rich uses interactive interfaces.

CO3: Develop Android applications related to mobile related server-less database like SQLITE

List of Programs / Applications to be developed:

- 1) Write an android program to implement activity life cycle using toast messages with proper positioning Lay outs.
- 2) a). Write an android program to print the set of alphabets/strings in a linear layout and in a table layout.
b). Write an android program to align text boxes labels, buttons in a Emulator using relative and linear layout tags in a layout.xml, Dialogs and Menu.
- 3) a). Write an android program to demonstrate DatePickerDialog, TimePickerDialog with current date and current running time.
b). Write an android program to demonstrate a Menu with name File with New and Open as menu items. Give toast msgs on click of each menu item. (if possible implement the content in 3 a) in one tab and other set of items in another tab).

- 4) Write an android program to switch from one activity to another using Intent. When the activity is changed disable the use of back button to avoid going to previous activity Views
- 5) Write an android program to demonstrate scroll view and list view. (List view should array adapter. The adapter should use array list of companies. Each item in the list view should have company name, company address and its annual revenue).
- 6) SQLite Database
- 7) Write an android program to implement the following operations using SQLite Database. Create the SQLite Database Object. Execute the CRUD Operations required for the application and Close the database - Case Study.
- 8). Divide students into batches and suggest them to develop any interested project such as.:
 - a. Student Mark Entry System
 - b. Enquiry System
 - c. Monitoring System

Learning Resource Reference:

1. Android Cook Book by Ian F. Darwin, O'reilly (SPD) publications.