

MOBILE APPLICATION DEVELOPMENT USING ANDROID

III B. Tech. - II Semester
Course Code: A3CS29

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COURSE OVERVIEW:

This course is concerned with the development of applications on mobile computing platforms. Android will be used as a basis for teaching programming techniques and development of mobile applications and mobile portals to enterprise systems. Students will use Android studio to develop apps.

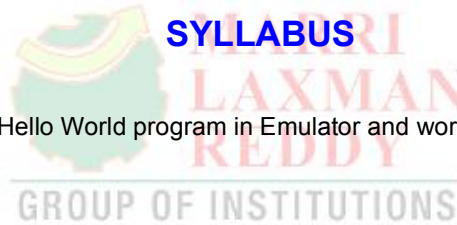
COURSE OBJECTIVES:

1. To facilitate students to understand android SDK
2. To help students to gain a basic understanding of Android application development
3. To inculcate working knowledge of Android Studio development tool

COURSE OUTCOMES:

By the conclusion of this course, students will be able to:

1. Identify various concepts of mobile programming that make it unique from programming for other platforms,
2. Critique mobile applications on their design pros and cons,
3. Utilize rapid prototyping techniques to design and develop sophisticated mobile interfaces,
4. Program mobile applications for the Android operating system that use basic and advanced phone features, and
5. Deploy applications to the Android marketplace for distribution.



WEEK 1:

Build and Run first ANDROID Hello World program in Emulator and work with Layouts and UI Controls.

WEEK 2:

Create an APP for registration form.

WEEK 3:

Create an APP for currency converter.

WEEK 4:

Create a calculator APP.

WEEK 5:

Create an App that simulates sample ATM operations.

WEEK 6:

- a) Create App for visiting a web url using implicit intent
- b) Create App for Changing from one activity to another activity using Explicit Intent

WEEK 7:

Create Slide show of multiple images using ANDROID APP

WEEK 8:

Develop an APP which plays video files.

WEEK 9:

Create an APP to insert data from registration form into SQLite database

WEEK 10:

Create an APP to retrieve data from SQLite database and display using Alert Dialog

WEEK 11:

Create an App that searches a given location using google maps API.

WEEK 12:

Create an App that prints information of Telephony Services using TelephoneManager.