



P.S.R. ENGINEERING COLLEGE, SIVAKASI – 626 140.

(An Autonomous Institution, Affiliated to Anna University, Chennai)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE VAC14CS01 – PROGRAMMING WITH ANDROID

Course Objectives:

- To understand the general concepts android OS and features
- To understand the basic usage of android platform.
- To learn the development issues and skills.
- To develop a final project using the educated techniques.

Course Outcomes:

Student will be able to

- **CO1:** Understand Android based development activities.
- **CO2:** Create front end and back end functions
- **CO3:** Create files and databases in android applications.
- **CO4:** Understand android and other platform integrations.
- **CO5:** Develop advanced android programs using tools for different application

Course Syllabus:

Day 1: Introduction To Mobile Apps

- Why we Need Mobile Apps
- Different Kinds of Mobile Apps
- Briefly about Android

Day 2: Introduction Android

- History Behind Android Development.
- What is Android?
- Pre-requisites to learn Android.
- Brief Discussion on Java Programming.

Day 3: Installing Android Machine

- Configuring Android Stack
- Setting up Android Studio
- Working with Android Studio
- Using Older Android Tools

Day 4: Creating First Android Application

- Creating Android Project
- Debugging Application through DDMS
- Setting up environment

Day 5: Building UI with Activities

- Activities
- Views, layouts and Common UI components
- Creating UI through code and XML
- Activity lifecycle
- Intents
- Communicating data among Activities