**Department of**

**Computer Engineering**

**4th Sep & 6th Sep 2014**

**SMT. S. R. PATEL ENGINEERING COLLEGE**

# Workshop Report

# TWO DAYS WORKSHOP ON ANDROID APPLICATION DEVELOPMENT

### Objectives:

- Basic Understanding of Android applications work, their life cycle, manifest, Intents, and using external resources.

- Design and develop useful Android applications with compelling user interfaces by using, extending, and creating your own layouts and Views and using Menus.

- Take advantage of Android's APIs for data storage, retrieval, user preferences, files, databases, and content providers.

- Use Android's communication APIs for SMS, telephony.

### Course Instructors:

Personalities from Soft-Point Solutions were invited for workshop.

The key instructor is:

Mr. Chirag Patel.

### Summary:

This workshop is organized to promote the students to build their own Android apps.Students can develop useful android applications with compiling user interfaces by creating their own Layouts, Menus, and Views. This two days workshop is organized for those students who are interested in designing, creating, deploying, and testing applications for the Android mobile phone platform.

**Day 1: Expert Lecture & Hands-on Session.**
**Day 2: Expert Lecture & Hands-on programming by students.**

### Day 1

- Introduction of Java Programming Style & how it helps in Android
- Basics of Android & Android Architecture
- Android SDK
- Environment Setup for Android Application Development
- Android Application Nuts & Bolts
- Android Application Architecture & Lifecycle
- Directory Structure

### Day 2

- Create an Android application with multiple UI controls.
- Access Call List and Making Call
- Persistence API in Android
- Android Database
- Shared Preference with Login Example.
- How to use file api in Android with example.
- CRUD operation.

*Course Participant*
Workshop was fully organized for faculties and all the students of Computer Engineering

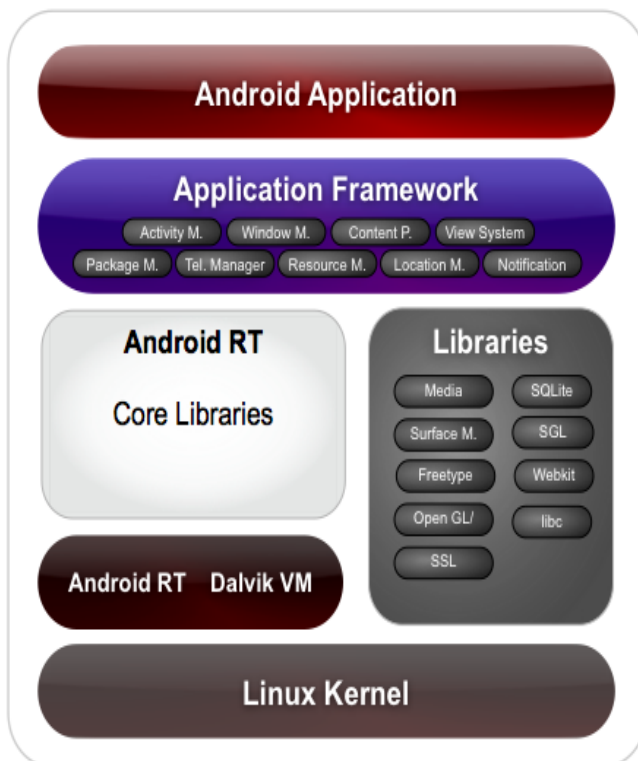| Semester | Total No. of students |
| --- | --- |
| VII | 42 |

## GLIMPSES OF ANDROID WORKSHOP



**Student's Feedback:**

At the end of Workshop it is important to have a feed back from audience o know the success of event and further improvement in organizimg such workshops.The workshop was a great success and very well received.

Prime feedbacks were:

♦ Content of the Workshop were good.

♦ Organized sessions were good.

♦ Detailed information was given by the Experts.

♦ Practical's explained by the Experts were good and understandable.

# Android Architecture & Required Software



## Required Software:-

♦ install the Java Runtime Environment (JRE).

♦ install the Java Development Kit.

♦ Install an IDE(Eclipse) .

♦ Install the Android SDK.

♦ Install the Android Development Tools (ADT) plugin for Eclipse .

♦ Configure ADT plugin .

♦ Configure an AVD .