



**Sandip Foundation's
Sandip Institute of Technology and Research Centre**

**Activity Report
On
Core Java and Android
Programming
(28th – 31st July 2015)**

**Organized by
Department of Computer
Engineering**



**Sandip Foundation's
Sandip Institute of Technology and Research Centre**

Activity Report On Core Java and Android Programming

Resource Person: Mr. Prasad Pawatekar, Obelisk IT Solutions, Nashik

Date: 28th July- 31st July 2015

Class: BE Computer

Course Duration: 38 Hrs

Co-ordinator: Prof Nikhil Kulkarni, SITRC, Nashik

Aim: To develop the skills of Professional Android

Objectives:

1. Build your own Android apps
2. Explain the differences AndroidTM and other development environments
3. Understand how AndroidTM applications work, their life cycle, manifest, Intents, and using external resources
4. Design and develop useful AndroidTM applications with compelling user interfaces by using, extending, and creating your own layouts and Views and using Menus.

Outcomes: Students Learned

1. How to develop android app
2. Learned various applications of android its life cycle and
3. Design applications using Android

No of Participants: 40

Course Content:

Sr.No	Contents	Duration
1	Android Overview Android Architecture I. Overview of Android Stack II. Android Features III. Introduction to OS layers	2
2	Deep Overview in Android Stack	2

	<ul style="list-style-type: none"> I. Linux Kernel II. Libraries III. Android Runtime IV. Application Framework V. Dalvik VM 	
3	<ul style="list-style-type: none"> Android Components <ul style="list-style-type: none"> I. Activities II. Services III. Broadcast Receivers IV. Content Providers 	2
4	<ul style="list-style-type: none"> Android UI <ul style="list-style-type: none"> Building UI with Activities <ul style="list-style-type: none"> I. Activities II. Views, layouts and Common UI components III. Creating UI through code and XML IV. Activity lifecycle V. Intents VI. Communicating data among Activities 	2
5	<ul style="list-style-type: none"> Advanced UI <ul style="list-style-type: none"> I. Selection components (GridView, ListView, Spinner) II. Adapters, Custom Adapters III. Complex UI components IV. Building UI for performance V. Menus VI. Creating custom and compound Views 	2
6	<ul style="list-style-type: none"> Notifications <ul style="list-style-type: none"> I. Toast, Custom Toast II. Dialogs III. Status bar Notifications 	2
7	<ul style="list-style-type: none"> App Deployment <ul style="list-style-type: none"> I. Android Application Deployment II. Android Application Deployment on device with Linux and Windows III. Android Application Deployment on Android Market 	2
8	<ul style="list-style-type: none"> Application Components <ul style="list-style-type: none"> Resources and Assets <ul style="list-style-type: none"> I. Android Resource II. Using resources in XML and code III. Localization IV. Handling Runtime configuration changes 	2

9	<p>Intent, Intent Filters and Broadcast Receivers</p> <ul style="list-style-type: none"> I. Role of filters II. Intentmatching rules III. Filters in your manifest IV. Filters in dynamic Broadcast Receivers V. Creating Broadcast receiver 	2
10	<p>Receiving System Broadcast</p> <ul style="list-style-type: none"> I. Understanding Broadcast action, category and data II. Registering Broadcast receiver through code and through XML III. Sending Broadcast 	2
11	<p>SQLite DB</p> <p>Data Storage</p> <ul style="list-style-type: none"> I. Shared Preferences II. Android File System III. Internal storage IV. External storage V. SQLite 	2
12	<p>Introducing SQLite</p> <ul style="list-style-type: none"> I. SQLiteOpenHelper and creating a database II. Opening and closing a database III. Working with cursors Inserts, updates, and deletes IV. Network 	2
13	<p>Location Services</p> <p>Location Based Services and Google Maps</p> <ul style="list-style-type: none"> I. Using Location Based Services II. Finding current location and listening for changes in location III. Proximity alerts IV. Working with Google Map 	2
14	Showing google map in an Activity	2
15	Map Overlays	2
16	Itemized overlays	2
17	Geocoder	2
18	Displaying route on map	2
19	Special Attraction: Use of Android in Embedded Application Developmen	2
	Total Hrs	38 Hrs

List of Participants:

Sr.No	Name of Students
1	Chetan Daga Ahire
2	Reena Kailas Ahire
3	Gayatri Babu Amrutkar
4	Prasad Sanjay Aher
5	Ketki Sachin Argade
6	Madhura Makrand Narkhede
7	Vaishali Deelip Bachhav
8	Rashmi Annappa Badadale
9	Karishma Sanjay Bafana
10	Pradnya Suresh Bagad
11	Jagdish Govinda Bagul
12	Utkarsha Sunil Bagul
13	Divyashree Shivajirao Baviskar
14	Suraj Shankar Bhagat
15	Kishankumar Jayvant Bhamre
16	Ajay Dattrao Shingare
17	Ashish Dilip Bhelonde
18	Jagruti Haresh Chaudhari

19	Nikita Yuvaraj Chaudhari
20	Pooja Dipak Chaudhari
21	Prajakta Ravindra Chaudhari
22	Chanchal Damodar Deore
23	Kiran Suresh Chavan
24	Prachi Dilip Chhajed
25	Ramesh Prakash Vig
26	Abhijeet Devidas Kothawade
27	Tejashree Rajesh Patil
28	Ankita Pravin Dandane
29	Priyanka Damodar Dawande
30	Sandeep Bhausahab Jadhav
31	Suvarna Kailas Deore
32	Damini Nitin Deshmankar
33	Kshitija Anil Deshmukh
34	Sumitra Asaram Lahane
35	Parikshit Ravindra Deshpande
36	Aarti Abhay Dhadiwal
37	Chhaya Chhabu Dhattrak

38	Nikhil Prakash Didolkar
39	Payal Sanjay Disoja
40	Ankkita Sanjaykumar Bumb

Event Photos:



Prof Nikhil Kulkarni
Co-ordinator

Prof A.D.Potgantwar
HOD