**IFC3**

**IIT BHUBANESWAR**
**N e u r o m a n c e r**

**SREYAS**
Institute of Engineering & Technology

**AICRAD Study**
Transforming Technology Through Innovation

# TWO DAY NATIONAL LEVEL WORKSHOP
## on
## Building Mobile Apps. Advanced Methods
### 7th & 8th Feb, 2017
## at

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**
**SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY**
Beside Indu Aranya, GSI, Bandlaguda, Nagole, Hyderabad

### in Collaboration with
## IIT, Bhubaneswar and IFC3 India

Venue: Auditorium of Sreyas Institute Of Engineering & Technology.
Registration Fee: Rs. 800/- Per Participant

## COURSE CONTENT
- Android Architecture.
- Importance of Open source software
- Eclipse, ADT & Emulator.
- Deploy Applications onto Phone
- Introduction to XML.
- Working with the Application.
- Layouts, Intents & Database.
- SQLite Database.
- Introduction to SQLite Manager.

**Day 1:**
- What is Android?
- Why is Android important to you?
- Eclipse, ADT & Emulator.
- Packages, Android Manifest file,.

**Day 2:**
- Creating an Activity & Activity Life Cycle.
- Background Colours & Images
- SQLite Database.
- Relative Layout with login Screen.
- Page Navigation Application

**Chief Patron:**
Shree. A.Vinayakumar Reddy (Chairman)
**Patron:**
Shree. Ch. Ravindranath (Secretary)
Shree N. Sharath Reddy (CEO)

**Honorary Members:**
Shree A. Hriday Reddy
Dr.P.N.Murthy, (Academic Director)
Dr. Suresh Akella Ph.D (Principal)
Shaik Syed Basha (IQAC .Director)

**Convenor.**
Padma Joshi. (B.E, M.Tech, Ph.D in CSE) (HoD, CSE)
**Co-Convenor.**
Mr. G. Sravan Kumar (Ph.9441926953)
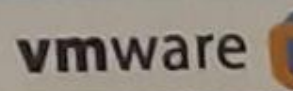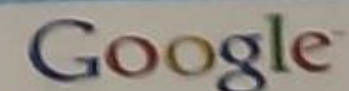
**Faculty Coordinators:**
Ms.Venkatalakshmi, Ph.7893646494
Mrs.Deepika, Ph.9912538433
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**2. Title:** Android application for entering all the details for a particular case and getting it registered in Database ,Thereby providing another interface for fetching the records on the basis of a single key value and displaying it on a ListView so as to provide the facility of deleting the records also.

**Description:** 1. Database using SqliteopenHelper class and sqlitedatabase(obj)

2. ListView (using listActivity).

3. Intent (bundle class) for passing key values for query from one activity to the other activity.

4. Adapter class (for representing the data coming from database).

5. Content Provider class( for entering data into database)

6. Cursor class( for fetching out the values from database)

**3. Title:** Building a login and registration pages on Andorid platform, and providing user a detailed view of the content in a Therby providing a facility of switching from one to other activity.

**Description:** (1).Thread implementation ( Handler class) for Automatic Switching between the activity.

(2). ListView (Costomized listView)

(3). Adapter class( for getting the value)

(4). Bundle class ,for data passing activity between activities.

(5). Db helper class for the database class

**4. Title:** Solving a Travelling salesman problem (N-P hard) by using a genetic Algorithm.

**Description:** Algorithm to this problem basically includes three steps.

1. Collection of genes from genes pool.
2. Arrange the genes in different chromosomes and make simple crossover using SCX algorithm
3. Mutation involves the rand() function to mutate the two chromosomes so as to produce child of better health.
   After the mutation process also it is not so confirmed that the health of the chromosomes produced is toofit.

**5. Title:** Login and Registration page for a particular website.

**Description:** This project uses html and php (server side scripting language) for building the web pages . Php is used to make the Website dynamic therby facilitating the login and registration of all the user within the website . Database us for the site is MySql . Local server used for the application is Apache tomcat server  SERVER: WAMP I.D.E: CSS DREAMWEAVER.

**6. Title:** Website for developing a basic management system for maintaining all the records of employee as per their division and designation hence providing them access to their own account only.

# Impact Analysis

- Mobile Application Development workshop is to examine the principles of mobile application (app) design and development. It is a project-oriented course which includes app design for different mobile platforms such as iOS, Android and Windows based on the latest versions and trends available.

- Described all aspects of mobile programming which make mobile programming unique compared to other platforms
- Gave an exposure to design mobile applications for a company or individual profit.
- This Workshop gave a thorough understanding of the motivation, requirements, functionality, possibilities, and limitations mobile app development and design
- The prime motive is to Implement an Android application using advanced phone features and apply prototyping approaches in order to develop complicated mobile interfaces.
- Conducted Hands-on session and Group activities for students which developed an idea to develop "Bus Tracking System for students" of SIET.
- Students also showed interest to develop applications for their Mini Project and also for Major Project. The Projects are very Interesting like Shuffle game, E-Swach Bharath etc.



Abhinay Gundari

Abhinay Gundari ,2017 passed out is an Android Developer

*"A very informative and valuable two days. The Conception and Confidence came to teach students regarding apps. Many Projects have been done after this workshop.----Dr.M.Purushotham, Professor, SIET"*

*"This entire two days was one of the best I've ever spent. The talk was inspiring, informative and his method of delivery was so easy to receive. --------Nookala Sai Sarath(14VE1A0541)"*

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