

Entrepreneurship Development Cell

The Chief Minister's Interaction with Students -Jnanabheri

(Display of Innovation Models)

4th August, 2018

Report

Government of Andhra Pradesh conducted one day workshop entitled "**Global Competitiveness for Capacity Building**" on 4th August, 2018 at Tarakarama Stadium, Tirupati followed by the interactive session with **Honorable Chief Minister of Andhra Pradesh, Sri N. Chandrababu Naidu** with students of various institutions.

Accordingly, students from Sree Vidyanikethan Engineering College actively participated and presented their innovative ideas in the form of prototypes and startup models. Six batches of students (12 members) along with their mentors presented the aforementioned models showcasing their vehemence in entrepreneurship. The models covered different domains such as **Smart city, IoT, Agriculture and Air Pollution**.

Description of Innovations

1) Name of the Innovation: IoT Enabled Smart System

Name of the Mentor: Dr. P.V. Ramana, Professor & Head, ECE

Name of the Students: Mr. Y.Narayana Reddy, Mr.K.Paramesh

Description: Smart city, which is a concept of interconnecting modern digital technologies in the context of a city, is a potential solution to enhance the quality and performance of urban services. With the introduction of Internet-of-Things (IoT) in the smart city, new opportunities have emerged to develop new services and integrate different application domains with each other using Information and Communication Technologies (ICT) .

2) Name of the Innovation: Real Time Emotion Recognition from Facial Images

Name of the Mentor: Ms. C. Maheswari, Assistant Professor of ECE

Name of the Students: Mr. B.Sai Naveen, Ms. C.H.Archana

Description: Facial expressions play big role in judging emotions of a person. It is found that limited work is done in the field of real time emotion recognition using

facial images. we propose a method for real time emotion recognition from facial image.

3) Name of the Innovation: The Real Time Monitoring of Water Quality Using IoT

Name of the Mentor: Ms. K. Neelima, Assistant Professor of ECE

Name of the Students: Ms. M. Madhurima, Mr. T. Afrid

Description: In order to ensure the safe supply of the drinking water the quality needs to be monitored in real time. The system consists of several sensors used to measure physical and chemical parameters of the water. The parameters such as temperature, PH, turbidity, conductivity, dissolved oxygen of the water can be measured.

4) Name of the Innovation: Smart Farming with IoT

Name of the Mentor: Mr. D N Karthek, Asst. Professor of CSSE

Name of the Students: Mr. Chinnamgari Charan Tej, Mr. B Yuvaraj

Description: The main theme is to build an agriculture based utility using arduino. The arduino chip is used in combination with sensors to measure ecological factors namely the temperature, humidity and soil moisture. The data is sent to the farmer through message from the cloud and it's based on necessities with the help of internet. This will be the best suitable utility for an ideal farmer who is aiming for good productivity and crop.

5) Name of the Innovation: Low Cost Electrostatic Precipitator

Name of the Mentor: Dr. Hemadri Prasad Raju, Associate Professor, CE

Name of the students: Ms. D. Pragathi, Mr. B. Sujana

Description: An electrostatic precipitator removes fine particles, like dust and smoke, from a flowing gas using the force of an induced electrostatic charge minimally impeding the flow of gases through the unit. In this low cost system, Aluminum foil is used as positive electrode and the dust particles flowing in a stream of air are charged by ionization and then made to flow between charged electrodes. As the particles and the electrodes have opposite charge, this causes the pollutant particles to get attracted towards the electrode plates (herein the aluminum foil) and collected there. Then the particles are removed at some interval by switching off power supply i.e. by stopping the process of ionization.

6) Name of the Innovation: Women Safety Device

Name of the Mentor: Dr. P.V. Ramana, Professor & Head, ECE

Name of the Students: Ms. A.Devisri, Ms. D.Tejaswi

Description: Women Safety Device included in a smart watch by using GPS and GSM tracking and alerts.

The workshop created a magnificent hub to share entrepreneurial ideas among students from different colleges, inculcating team dynamism, leadership, design and deliberate thinking skills. The students grabbed the opportunity and transmuted their latent skills into apparent strengths.

PHOTOGRAPHS



