

## EIE-BUOYANT

**Date:** 23<sup>rd</sup> September, 2016

**Venue:** IT Class Room, PG Block, BMSCE

**No. of participants:** 32

**Faculty coordinators:** Preethi K Mane, Dr Santhosh Desai

**Student coordinators:** Aswin, Sandeep.

**OBJECTIVE:** To keep objects made of thermocol and card board floating and be able to move through a given path (water).

**OUTCOMES:**

1. Understand effective principles in design and construction of the ship to make it float.
2. Use of motors for locomotion.



### BRIEF DESCRIPTION:

This Event was conducted in IT Class room on 23-9-2016 from 11 am to 4.00pm. A water path was built in the class room using cement bricks got from civil Engineering department and tarpaulin sponsored by start adds. Around 32 students participated in the event. The student worked on thermocol material to make different design of boats. First the Buoyancy of the design was checked and later on DC motors and associated boards were added and the ability of the boats to move from start to finish was checked before including the finished product in the final competition. The final round was judged by Dr Aralimatti, Dean PG studies and Prof Madhuchand, HOD, Architecture. The teams were rated according to buoyancy, aesthetics and speed of the boat to go to finish –fastest. The first Prize went to team from BIT College (EIE) and second prize went to team from BMSCE (TC& ML).The event had about 50% participation from other department and college. The remaining 50% of the students comprised of third year and first year students from EIE department.

### IOT TECHNIQUES AND IMPLEMENTATION USING ARDUINO EIE in ASSOCIATION WITH FIVETRON TECHNOLOGIES

**Dates:** 23<sup>rd</sup> to 24<sup>th</sup> September, 2016

**Venue:** EEE DSP Lab, PG Block, BMSCE

**No. of participants:** 28

**Faculty coordinators:** Ajay Kumar D, Namratha S.N

**Student coordinators:** Sarika J, prithvi D.

**Objective:-**IoT applications using sensors. using IoT technologies to improve industrial requirement, innovation in IoT Will lead transformation across industries and society, and enable change at a global scale, with specialized focus on the areas of

industries, media, IT, and networks. To learn how IOT it is useful in social cause like using connectivity to address poverty, human rights and climate change.



**Outcome:** students will be able to understand the IoT concepts, architecture and also will learn to implement basic program and interfacing sensors on IoT platform and do other applications using Arduino hardware kit.

### SENSOR TO CLOUD CONNECTIVITY EIE in ASSOCIATION WITH SUNLUX

**Type of the Event:** BMSCE Exclusive, No. of Participants: 40

**Duration:** Two days, First Day training, followed by a competition on second day

**Outcome:** Internship for the winner

Department of Electronics and Instrumentation conducted an event by name “**Sensor to cloud connectivity**”, for phaseshift-2016, under coordination of Dr. Veena.Hegde (faculty coordinator for the event). Along with her Ms.Neha M(5<sup>th</sup> sem,EI), Mr. Ajay Kumar(5<sup>th</sup> sem,EI), Ms.Chandana(3<sup>rd</sup> sem,EI), Mr.Chandan (1<sup>st</sup> sem,EI) and Mr. Karthik Gunalan(5<sup>th</sup> sem, EI) helped her to coordinate the event. On the first day of Phase Shift, that is 23<sup>rd</sup> September 2016, Dr. Sunil Shah along with his team of six members reached BMSCE, and started preparations for the event getting Roomba kits, an IOT enabled robot, sensors etc. The cloud was facilitated by SUNLUX, the collaborating industry and WiFi routers were provided by BMSCE.

The workshop was conducted as per the plan and at the end of the workshop the participants were given a problem statement, for which they had to arrive at a solution by developing a control logic to move the robot. The image processing algorithm was proposed by the industry to identify the object, with certain obstacles. The algorithm was implemented using Python and java programming. The participants were given a night’s time for coding.

Out of the four teams that had participated to finals, team-4 was recognized as the best in the overall judging and were offered an internship by Mr.Ram Kerur(CEO of Sunlux technologies pvt,ltd.,). The respective resource people were given honorariums and mementos for conducting the event. The event was successfully conducted and executed

## **PROJECT DISPLAY ON HOME AUTOMATION**

**EIE in association with ATTI**

**Duration of the event: 1 day (23/9/16)**

**Outcome of the event: Project display by student Groups**

**Response-Faculty, Students, Industry trainers; exhibitors and Alumni**

The Department of Electronics and Instrumentation conducted an event called “Project Display on Home Automation” for PhaseShift-2016. The event was conducted on 23/9/16 for about 3 hours in the project lab under the coordination of Dr. Veena Hegde who was the faculty coordinator of the event with the help of the event coordinators Chetna B.R (5<sup>th</sup> SEM) and Maria Shruthi (5<sup>th</sup> SEM).

Overall response is very Good

Experience-Learning & Challenges (three each)

- 1.Innovative Ideas in project implementation
- 2.Completeness of project
- 3.Presentation of a project

**Impact in general and department in particular**

**Outcome: Resource person is ready to conduct sessions on how to bring an idea into a product**

The jury and sponsor for the event was an eminent resource person **Mr. Kishan Vemuri** from the industry “**ASSOCIATION WITH TRIZ AND TECHNICAL INNOVATION (ATTI)**”.

The objective of the event was to enable students to demonstrate the working models of simple applications of Home Automation. Participants (in teams of 3-4) were judged based on their use of sensors and IOT devices and creativity, innovation and presentation skills. The winners of this event were a group of **4 from Mechanical Department of BMSCE (Adarsh, Ashish, Ashutosh & Hanamant)** who were given a prize money of **Rs. 3,000/-**.



We also had the privilege of listening to a talk based on IOT and Innovation delivered by Mr. Kishan. As a token of gratitude for the talk, sponsorship and

judgement of event, our department presented a small memento to our resource person.

## **APP DEVELOPMENT**

**Objective:** This event was intended, for students who are new to android programming and want to learn how to build Android apps.

Dates: 23<sup>rd</sup> to 24<sup>th</sup> September, 2016

**Faculty Coordinator:** Dr. Santosh R. Desai, Prof. Preeti k. Mane, Prof. S. Kumuda

**Student Coordinator:** Anusha & Sanjana

**No of Participants:** 13 teams (33)

Venue : Computer Lab, E& I Dept.

Outcome: The event will help the students to take the first step on their journey to become an Android developer!. The prerequisites are that, the participants should be aware of using a smartphone to surf the web, chat with friends etc. and programming knowledge. They need not have Java programming experience to attend this event. If they are aware of android software, then it is an added advantage.



A total of 13 teams belonging to various colleges viz. East west Institute of Technology, M V J College of Engg., P E S Institute of Technology, B N M Institute of Technology etc had registered for the event. The winners were selected on the basis of the functionality, User Interface and added features like text to speech etc.

## **DEPARTMENT STALL**

Inauguration of phase shift 2016, was held on the 23rd of September. Department of Electronics & Instrumentation, actively participated in the techno fest and a stall displaying several innovative projects and various other academic activities of the department was show cased.

Dr Mamatha M.N was in charge of the stall. She was ably assisted by Professor Namratha S.N. The technical staff of the department Mr Siddiah , Mr Ramaiah sir and Mrs Geetha along with student volunteers in charge of stall helped in setting up the projects and the stall.



The student volunteers who put effort in setting up and explaining various projects were Rajesh G.P, Priyanka Hubli , Rishi, Ajay Kumar, Sanjana.S .



The stall was visited by students, faculty of our college and other colleges like KSIT, MVJ, BNMIT, Etc. The response for the stall was very much encouraging. The visitors expressed good appreciations for the projects of the department and presentations by Dr Mamatha M N and her team . The Future scope for the projects was also suggested.

Volunteering at the stall was a very good learning experience for all the students. It improvised communication skills, confidence and creativity amongst them. One student, from each year, totalling Four, volunteered to look after the stall and give the necessary inputs/ presentations, including the explanation the working models of projects to the visitors. This exposure improved the qualities of teamwork and leadership.

The industries like ELIPSONIC & COREEL appreciated the different ideas and they offered internships to few students and also encouraged the guides to come forward and the implementation of various projects into products.