BMS College of Engineering

PHASESHIFT 2019

Department of Medical Electronics

The 6th edition of Phasesfhift was held on the 14th and 15th of September.

The Department of Medical Electronics managed to organize three competitive events and one workshop. On the first day, we had 2 events Talking Tech and Techno Hunt and the full-day workshop on Image Processing was organized simultaneously on the same day. The event Faraggo was held on the second day of the fest.

The student coordinators in-charge were Bhamini N.M and Chandana Priya. Along with the faculty coordinator Dr. R.Kalpana.

Our main sponsors were TMI Systems, Medtech for All and Spectalite.

All the events were conducted and received successfully with great cooperation from the volunteers and the event coordinators.

Techno Hunt

EVENT DESCRIPTION:

Techno Hunt is a circuit based treasure hunt that consists of two rounds which will test the knowledge and problem-solving skills of the participants in the field of Electronics and Energy and Sustainability.

Round 1:

The participants go around the venue searching for components based on the clues given to qualifying for the 2nd Round.

Round 2:

The qualified teams will have to rig up a circuit based on energy efficiency.

Date: 14th Sept 2019

No of Registrations : .6 Teams (team of 2/3)

                        18 students

No of students participated: 2 teams

Judge: Dr. Vijayalakshmi K

Faculty incharge: Suma M S

Event Outcomes:

1. The participants were able to search the components based on the clues given using their basic engineering knowledge .
2. The participants were able to understand the proper concept of rigging up a circuit when he circuit diagram is given .

Completion of the event & effectiveness :

- The event completed successfully with the participants being able to search the components and rig up the circuit
- Their Circuits showed that they were very clear on the basic aspects of energy and sustainability

Farago

Event Description: Craving for fun with a touch of tech, then this is exactly the event you are looking for... engage your self in 3 fun rounds of taboo, Quescussion and a Life-sized board game where you end up rigging a circuit. This is a potpourri event, which consists of 3 rounds.

Round 1: Taboo! –

It is a word guessing game, where a player(giver) should have their team guess the words on the player's card one by one in the allotted time.

Rules: The giver should not use the word itself or five additional words listed on the card. The team may make as many guesses as they want with no penalties for wrong guesses. The teams with the highest score move ahead to the next round.

Round 2: Quescussion-

Here qualifying teams from previous rounds are given a trigger(topic /Problem Statement) is provided for the students to discuss, only through questions i.e. any type of statements are forbidden.

Rules: One member from each team takes part. Any member using a statement gets disqualified and is replaced by another member of the team. The last few remaining teams are selected for the final round.

Round 3: Roll it..Solve it..Win it..

It's a life-size board game, with 2 members starting off the game, pawn (one member)'s action is decided by their ability to solve the puzzles and riddles. As the game proceeds the difficulty level increases. As they solve the riddles they'll gain the components required to complete the final circuit.

The circuit will be based on alternative energy sources.

Students must follow the given time limit.

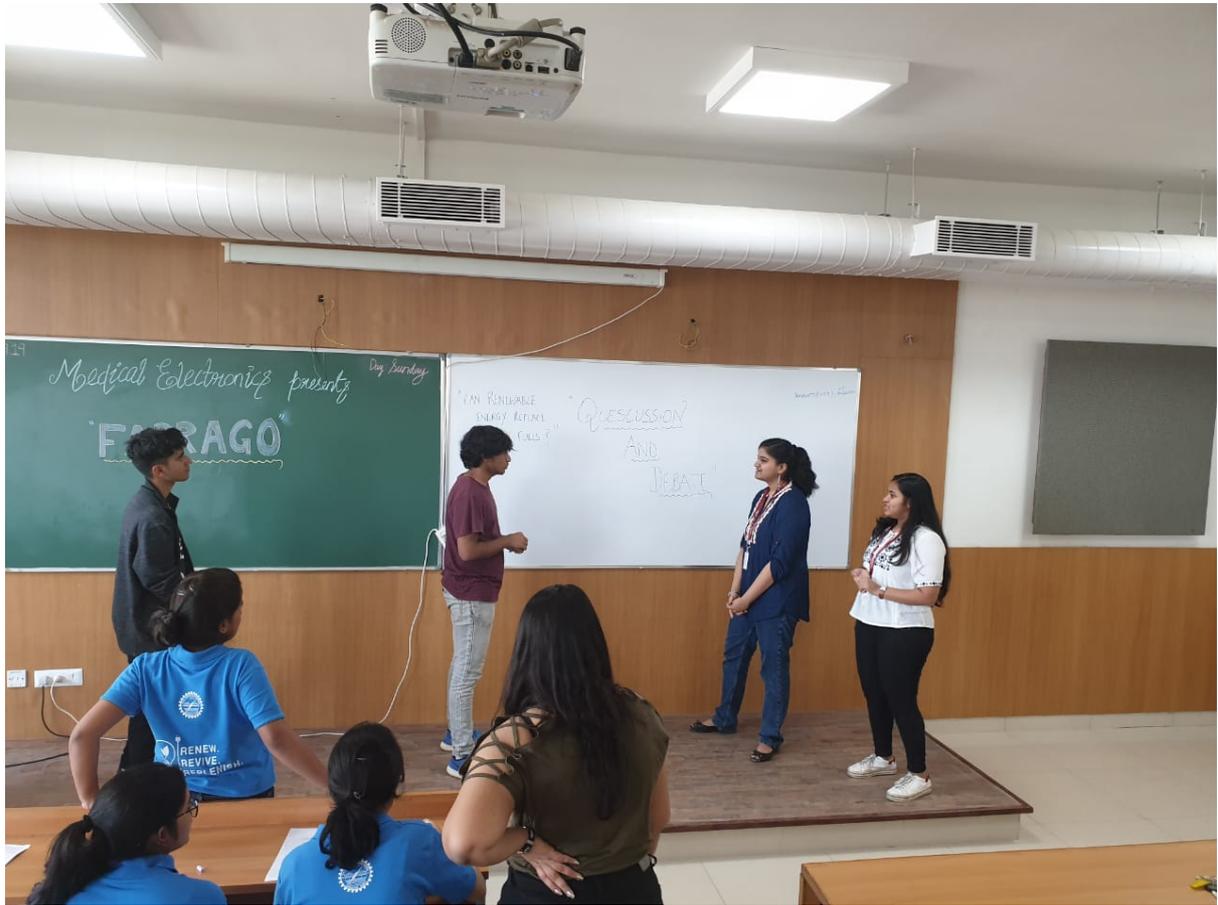**No of Registrations :** .8 Teams (team of 2/3)

18 students

No of students participated: 8 teams

Judge: Prof. Beena Ullala Mata

Faculty incharge: Prof. Beena Ullala Mata

Event Outcomes: We were lucky to have the participation of 8 teams overall. The participants seemed happy being part of this event and enjoyed every bit of the game. In the end, there were 2 teams who successfully completed the board game round and were then asked to rig up circuits, and the team completing the circuit first was declared the winner.

We are glad to have received an opportunity to host an event on the occasion of phaseshift.

Talking Tech

Talking Tech: Are you intelligent, savvy, quick-witted with strong perspectives? Do you think you have what it takes to advocate for what you stand for? If yes, this two round event with a 'Pick and Speak' and a 'Technical Debate' is just the right event to showcase your inner orator!

First round: It's a quick-paced 'Pick and speak' round, where the teams were given on spot topics and were given access to the net to collect facts and form opinions on topic for *3 minutes* and speak on the topic for *75-90seconds*

Second round : 'Technical Debate' - The teams were given a topic based on Sustainable Technology and asked to choose FOR or AGAINST the topic. They were be given *5 minutes* time to prep for their debate and can use access to the net.

Date - 14/09/2019

Time- 11.00-1.00

No of Registrations: .7 Teams (team of 2/3)

No of students participated: 5 teams

Judge: 1) Muskaan Agarwal

            2) Sheyazi Khan

Faculty incharge: Dr.R. Kalpana

Event Outcomes:

1.   The participants were able to gain knowledge and form opinions on trending tops in the field of sustainable technology.

2.   The participants were able to face conflicting situations and resolve them using appropriate reasons and stand for what they believe in.

Completion of the event & effectiveness :

·   The event completed successfully with the participants being able to talk about the topics for the given time, answer the judges questions and end with strong conclusions.

·   Their speeches and debates showed that they were very clear on the basic aspects of energy and sustainability.

IMAGE PROCESSING Workshop

A totally informative workshop with lessons to carry on for your future. The workshop began with an introduction to mathematical operations, Python basics like tuple, dictionary. A session on programming with Python/R image processing basics was delt.

Participation: Team of 2
Registration Fee: 150 INR

Speakers: Dr. Harshavardan Rao, Prof.Satish
Date: 14/09/2019
Time: 11AM - 5PM

Venue: CR602,6th floor, New building.

Workshop outcomes:

The participants were able to learn and execute image processing basics on Spyder using Python image reading, display, cropping, masking.

We would like to thank all the student volunteers, event coordinators, faculty coordinators, the non-teaching staff members of our department for coordinating and cooperating with us and making this event a wonderful and a memorable one.

Our heartfelt thanks to our dear HOD Dr.K.Vijayalakshmi for supporting us throughout the fest without whom the Phaseshift 2019 from Medical Electronics Department wouldn't have been a grand success.