Achievement and awards

E-Yantra Ideas Competition

A team of 4th year students from BMSIT took part in the E-yantra ideas competition. The team consisted of: Kaushik Balasundar – Team Leader (ME),Aby J Kottoor (ME),Akash S Nambiar (ME), Shwetha D (CSE) Under the guidance of Mrs S.Nithya poornima, Assistant Professor.The project they presented was titled – "Hydraulically Actuated Autonomous Nurse (HYAAN)". They first took part in a MOOC about entrepreneurship which gave them an insight on product ideation, customer requirements, etc. Through the months of October – February, they worked on developing a full-scale model of the project. The aim of the project was to help hospital nurses lift and turn sedated and unconscious patients amid the increasing shortage in skilled nursing staff across the world. They believe that this project will prevent nurses from physical stress and improve efficiency by automating the arduous process of lifting and turning a patient. The full-scale prototype was completed by January and they submitted a video for evaluation which was shortlisted for the Regional Finale that took place at PSG Institute of Technology and Applied Research, Coimbatore, where their efforts were highly appreciated by the judging panel. Their project was then selected for the National Finale, conducted by IIT Bombay, and was commended by the judging panel of acclaimed IIT Bombay professors and Angel Investors. Their project finished in the top 5% of the competition.

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Workshop conducted

INTRODUCTION TO ARDUINO

Date :- 23rd August 2019

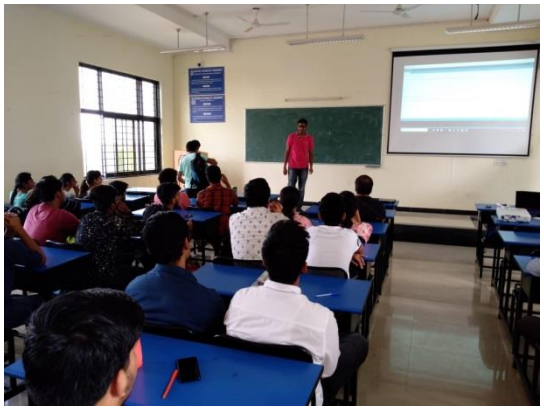
Venue :- BSN CR 402

All the 1st years passionate about robotics gathered around and were taught the basics of Arduino Microcontroller. There were about 35 students who attended the session and learned about the basics of arduino.
The session began with an introduction of all the participants, which took about 20 minutes. After the introduction, students were given a brief understanding of microcontroller and microprocessor. Later part of the session was focused towards programming the arduino board. Students were told about the different pin on the Arduino Uno Board and were trained to control the pins programmatically. Along with basic functions, participants were also told some special functions also.

All the students passionately solved the problems given to them, which showed their immense hunger to learn new things. The session took around 2 hours and ended with a live demonstration of some basic codes on Arduino Uno board.

Session organizer:- Anmol (1BY18CS021),Gaurav Sethia (1BY18CS055) Harish Kumar S Guragol (1BY18CS060).

Coordinator: Prof. Rashmi N(Assistant Professor, Dept. of ECE),Prof. Shruthi J (Assistant Professor, Dept. of CSE),



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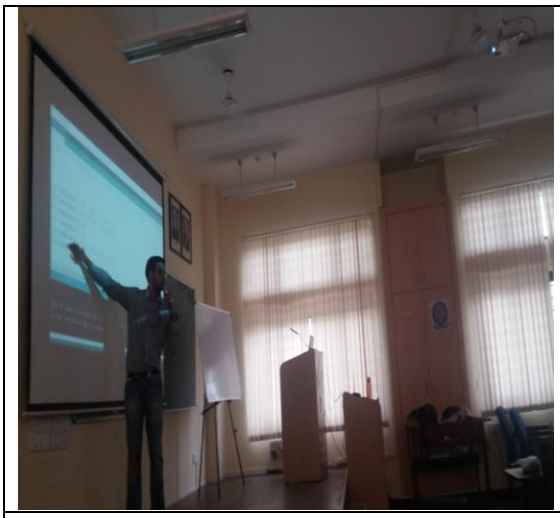
Beginners Guide To Arduino Based Robotics

A One day basic workshop on Schedule for Beginners Guide To Arduino Based Robotics was organised On 23/3/18. The workshop was focussed on basics on Arduino programming, hands on Training using a robotic Kit . At the end of the course an expert Mr Arvind Nadig, CEO of Li2 innovations, was invited to deliver a lecture on advancement in robotics and the world towards entrepreneurship. The workshop also was extended vin demonstrating 3D printer and EEG brain sensor.



Mr Kaushik organsing the workshop

Mr Arvind Nadig,
CEO of Li2 innovations delivering a Talk on Robotics

Students building the model

Mrs S.Nithya Poornima organized a workshop on Industry 4.0 On 26th October 2018.This workshop enabled to bridge the gap in understanding the latest trends pertaining to automation. Through this workshop we were able to understand that the real machines need a medium to

communicate to the virtual world Via IOT. This workshop gave a detail working process and hands on smart IOT sensor that is XDK. This sensor is sufficient to retrofit in measuring data and evaluating productivity

Mr Santhosh delivering a lecture on Industry 4.0

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Report on Robotics- Hexapod with PIC 18 Certification

The department of ECE ,CSE and TCE conducted a three day workshop on "Robotics- Hexapod with PIC 18 Certification" from 16th to 18th February 2018 for the college students in association with APSIS Solutions. Sixty-one (61) students attended this workshop from ECE, TCE, EEE and CSE departments.

The workshop was inaugurated by Principal Dr. G N Mohan Babu on 16th Feb 2018. Dr. Hanumantaraju ECE HOD, Mr. Nitin Awasthi Vice-President APSIS Solutions, the coordinators Mrs. Rashmi N and Dr. Jayadeva G S and other faculty members and students were present.

The following broader topics were covered in this workshop:

Day 1: Embedded Systems and Robotics – Installation of Software's on Laptops in Parallel.

Day 2: Hands on basic peripherals, emphasis on C and motor control sequences

Day 3: Coding style and sequences.

The students were very enthusiastic and participated well, as it was largely a hands-on workshop. Mr. Jagan Jotivel MICROCHIPs university program manager was the chief guest for the valedictory function on the evening of 18th Feb 2018. He informed students about MICROCHIP products and facilities available for educational institutions.

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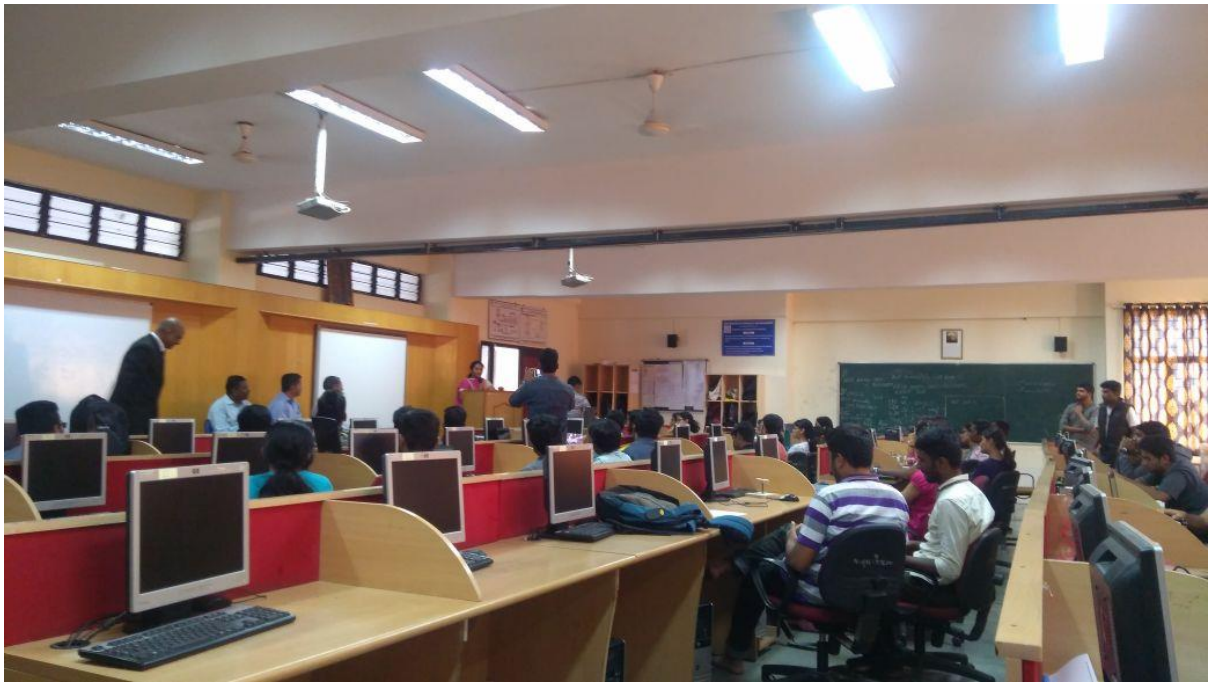

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List of talks organized

"Robotics Club Induction Programme "

Date: 21th Aug 2019

Venue: Seminar Hall

Induction Programme 2019 – 20 Induction Program 2019-20 was conducted by Dept. of CSE on 5 th Aug 2019. Robotics Club which is co-ordinated by Shruthi J, Asst Prof. , Dept of CSE and Rashmi N, Asst Prof., Dept of ECE gave a presentation regarding club activities. Swati Sandhya and Harish Guragol (3 rd Sem, Dept of CSE) along with other members of robotics club gave a talk on robotics club in detail. They explained about the functioning of the club, mission of the club and projects completed till now. An ongoing project named as "FIREBIRD V' Restaurant Order Taking Bot was also demonstrated to the 1st year students. They were also introduced to the upcoming "e-YANTRA"- State of the art Robotics facility in collaboration with IIT-Bombay. The students were also briefed on the benefits and advantages of being a part of the Robotics Club.

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ROBOTICS CLUB
Discussion on eYIC

Date :- 30th August 2019
Venue :- CSE Seminar Hall

e-Yantra Idea competition is competition for colleges having e-Yantra lab. A discussion happened about the participation of BMSIT in the same competition. Students having an idea for the same, gave a brief description about the same, faculty coordinators other student members helped them fill the loop holes and restructure their ideas towards perfection. Around 8 ideas were discussed and were structured properly so as to submit ideas.
After the discussion of ideas, students were told about the documentation of the ideas in the proper format and what points to stress. The session took ab out 45 minutes and the seesion was coordinated by Prof. Rashmi N and was concluded by Mrs . Shruthi J.

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Expert talk on "Importance of power line and it's fault detection"

Date: 25th OCT 2018

Venue: CR 105

Resource person: Dr.Madhu Palati, Associate Professor (EEE dept)

Convener: Prof. Rashmi N[1], and Prof. Shruthi J[2] ,Assistant Professor, Dept of ECE[1], Dept of CSE[2]

The talk was start by formally welcoming resource person and the participants by Prof. Rashmi N. Students from first semester participated in this talk .The total number of students participants were 40. Mr. Madhu Palati, started the talk with the introduction of power line and it's importance in practical life. He discussed about the problem in finding out fault in power line when it is deployed in the field. The students appreciated the presentation given by Dr. Madhu Palati

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Expert talk on "Self Realization"

Date: 5th Oct 2018

Venue: CR 105

Resource person: Dr. Manjunath ,Professor and head (ISE dept)

Convener: Prof. Rashmi N[1], and Prof. Shruthi J[2] ,Assistant Professor, Dept of ECE[1], Dept of CSE[2]

The talk was start by formally welcoming resource person and the participants by Prof. Rashmi N. Students from first semester participated in this talk. T he total number of students participants were 50. Dr. Manjunath, started the talk with the importance of self realization in today's world. The talk also includes the important tips for improving our confidence level and realizing our strength and weakness. Work more on our strength. students enjoyed and get motivated from this talk.

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Expert talk on "Tit bits of C-programming"

Date: 28th Sept 2018

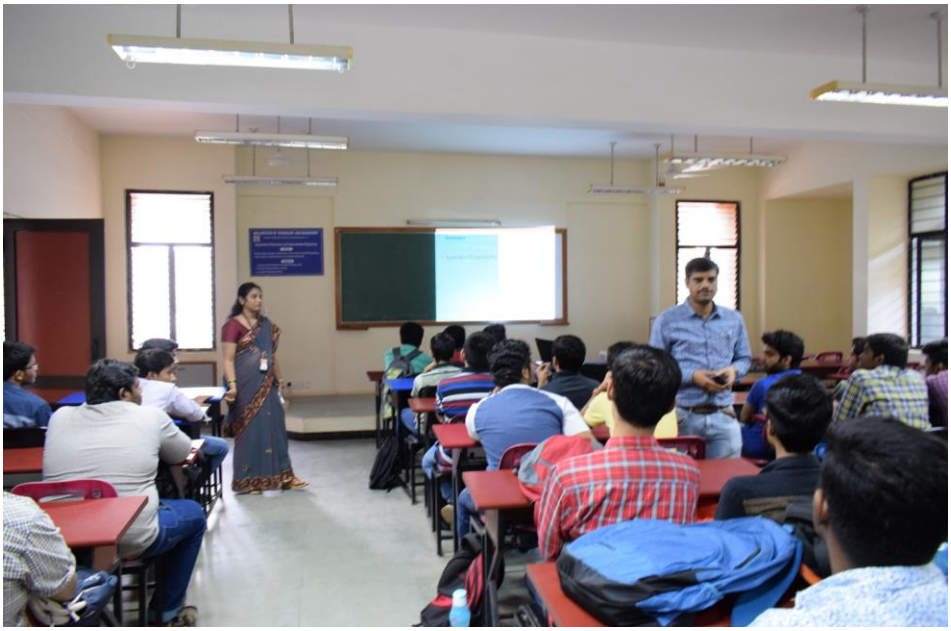
Venue: CR 105

Resource person: Dr. Vishwa kiran, Associate Professor (CSE dept)

Convener: Prof. Rashmi N[1], Assistant Professor, Dept of ECE

Prof. Shruthi J[2], Assistant Professor, Dept of CSE

The talk was start by formally welcoming resource person and the participants by Prof. Rashmi N. Students from first semester participated in this talk .The total number of students participants were 40. Mr. Vishwa kiran, started the talk with the introduction of C programming, syntaxes and basic program to make application based on C. The talk also includes the important tips for writing c-programming professionally**.**



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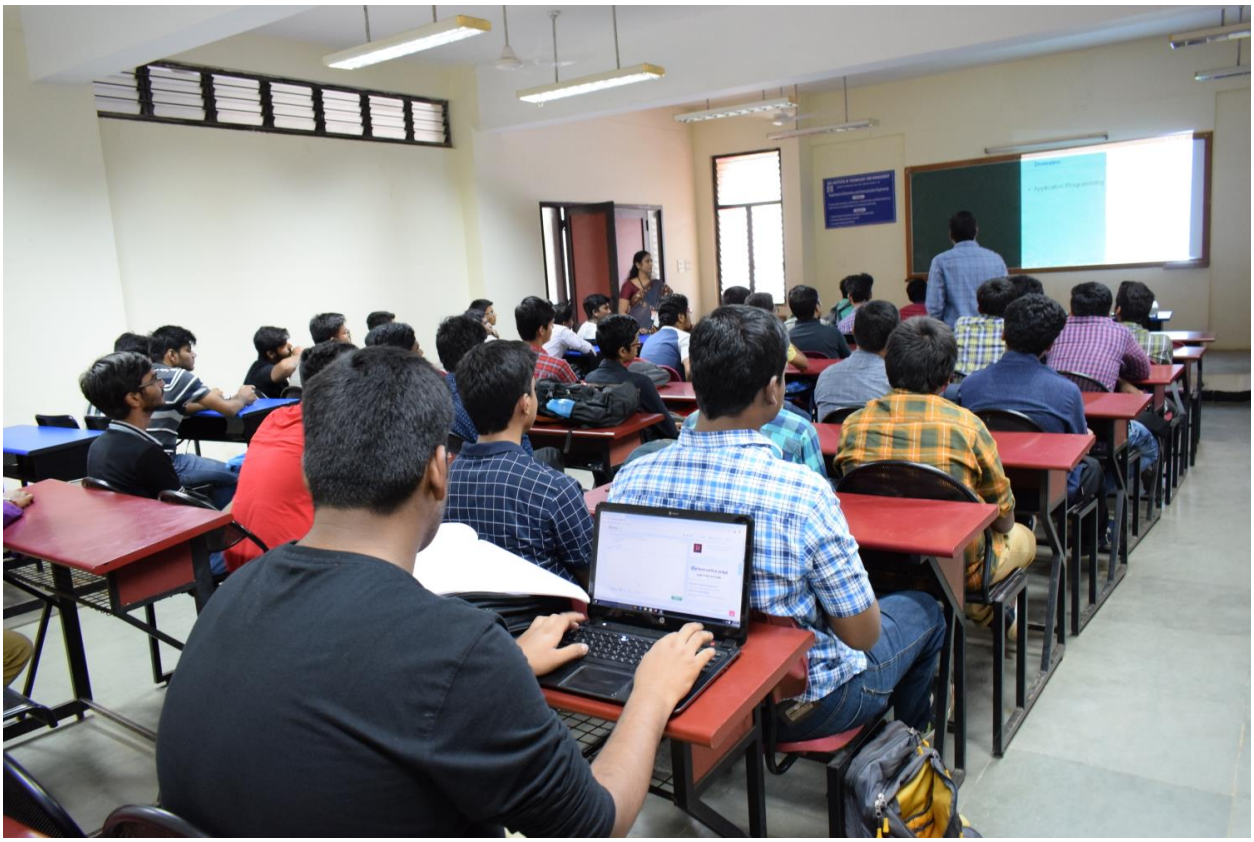

Student club orientation

Electronics and Communication Engineering department has initiated the student club titled

"Robotic" Club. The students of the ECE Dept. are the members of the clubs. The orientation of the clubs was organized on 18/8/2017 in the CR 410. All the club members and coordinators were present. The motivation, objectives, action plan and rules and regulations of the clubs were discussed in the club. The HOD ECE welcomed the club members are discussed the motivation to initiate the clubs and objectives, action plan rules and regulations framed by the Faculty coordinator-Prof. Rashmi N an assistant professor in Dept of ECE, were discussed.

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"SMART CITIES"

DATE: 22-09-2017

Name of the Faculty Member with Designation:	Rashmi N, Assistant Professor, BMSITM
Type of the event	Invited talk
Title of the event	Smart City
Name of the resource person With designation	Mr.V .Ravichandar
Date of the event and venue	22/09/2017, Digital class Room

Brief abstract of the event:

Nowadays, we keep hearing people talking about smart cities. India is planning on the development of smart cities at the global level. Our Prime Minister Narendra Modi's vision 'Digital India' has planned to build 100 smart cities across the country. The idea of smart city came into formulation owing to the need to accommodate rapid urbanization of the age. Inspite of all these, most of us did not know what is a smart city and how its different from a normal city. Mr.V.Ravichandran who is chairman of feedback consulting, a leading research and consulting firm in India throwed some lights on what exactly is a smart city what are the criterions that are to be satisfied to claim as smart city. He spoke on the major issues Bangalore is facing and it inspired us to think about solving them and made us realize our responsibilities as future engineers. The various issues which he picked up to discuss about were

- Public health
- Necessity for the development of our public transport
- Lake encroachment problems
- Storm water drains
- Environmental problems
- Waste and sewage management etc.

The document he presented revealed a lot of facts about Bangalore. The whole session was interactive and informative. We realized how important it is to work on Smart City plans which could make India take a major leap in the race of development.

Target Audience Details:	VI sem ECE students

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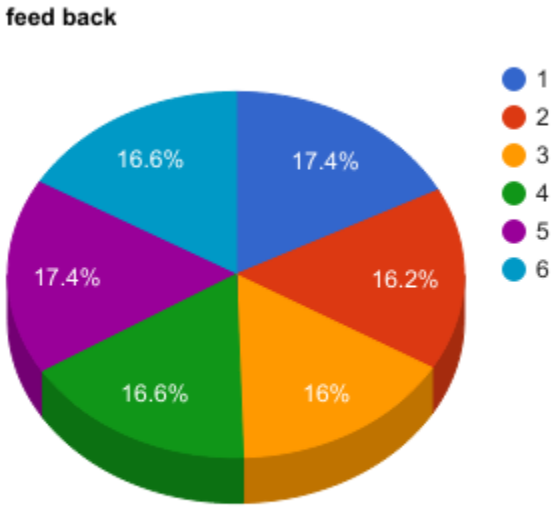
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