

The eMITers gazette

Department of Electronics and Communication
Engineering

Maharaja Institute of Technology Mysore

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VISION

"To be recognized by the society at large as offering Value based Quality Education to groom the next generation entrepreneurs, leaders and researchers in the field of Electronics and Communication to meet the challenges at the global level"

MISSION

1. To groom the students with strong foundations of Electronics and Communication Engineering and to facilitate them to pursue higher education and research.
2. To educate and prepare the students to be competent to face challenges of the industry/society and /or to become successful entrepreneurs.
3. Provide ethical and value-based education by promoting activities addressing the societal needs.
4. Enable students to develop skills to solve complex technological problems of current times and also provide a framework for promoting collaborative and multidisciplinary activities.

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HOD MESSAGE



The Electronics & Communication Engineering is a most dynamically changing and ever evolving branch. Electronics is the foundation on Technology and Computer Engineering has grown. All high speed communication networks and computers, mobiles, tablets, etc., work on the firmware & hardware designed by engineer.

'To be recognized by the society at large as offering Value based Quality Education to groom the next generation entrepreneurs, leaders and researchers in the field of Electronics and Communication to meet the challenges at the global level'. This is achieved by imparting in depth theoretical knowledge during the lectures followed by hands-on experiments and designs in the state-of-the-art laboratories. The department is also offering value added courses on variety of domains which are essential to improvise the professional qualities of the budding engineers. All these are accomplished with the help and assistance of the qualified and experienced faculties of the department.

Today department is vibrant with more than 34 young and (Technical) and has 2 PhD holders along with more than 10 faculty pursuing PhDs, Tech holders.

Department has a plethora of co-curricular and extra curricular activities planned for the students as usual to every other semester. Department has planned for the indoor activities as well as outdoor activities for the semester. Newsletter committee is working to make this a great success, I wish them all the best.

PAPERS PUBLISHED

1. Dr. Mahesh Rao and Mr. Balakrishna K. published a paper on **"A WSN Application to optimize the irrigation for Horticulture Crops in Real-time using Climate Parameters"** in Journal of Adv. Research in Dynamical & Control systems Vol. 10, Issue 12, 21 Aug 2018.

2. Mr. Dinesh M.A. published a paper on **"Development of an Autonomous Drone for Surveillance Application"** in Internal Research Journal of Engineering and Technology (IRJET) Vol. 5, Issue 09, Sep 2018.

TECHNICAL TALK

The Department of ECE, MIT Mysore (MITM) and Department of Placement and Training, MIT Mysore, jointly organized a talk by Industry expert on 4th Sept 2018 at the placement Auditorium of MITM. The talk was targeted at the final year students of Mechanical Engineering and Electronics and Communication Engineering departments.

The speaker was personally welcomed by the Management Committee: Dr Murali S President, Maharaja Education Trust (MET), Dr Vasudev, Secretary, MET, Dr B.G. Naresh Kumar, CEO, MET and Principal, MITM. The talk was presided by Dr Mahesh Rao, Professor and Head, Dept of ECE MITM and the program was compefed by Dr Ravichandra, Associate Professor Department of ECE. The proceedings of the program were supported by Prof Rajesh N, Prof Sandesh G, Prof Sheshagiri J, Prof. Mahadesh K.M., Prof Siddhanna Janai of Department of ECE, MIT Mysore.

The industry expert was Mr. Balaji Nagaraj Guptha, Regional Director (West and Central America, HCL Technologies. He being an alumnus of PESCE Mandya, India, spoke in a way so as to touch the local nuances and provide a global perspective. Starting off humbly as Network support engineer at Vinciti Networks (a startup, 14 years ago), he has reached a significant position in a small span of time. He dedicates it all to his drive and perseverance.

The talk started off with a brief welcome by Dr. Mahesh Rao with an introduction about the speaker. The speaker gave few more details about his days during Engineering and how understanding the core concepts of Mechanical Engineering helped him in gaining some edge in an IT company in USA. Mr. Guptha also shared some fun incidents from his student life thus mixing some humor in the technical talk. He emphasized on the fact that pursuing one's interest should be the basis for choosing a suitable career, the beginning has to good even if humble.



Mr. Guptha also pointed out that, no matter which branch one chose, it is all converging. With accelerated growth in the domain of IoT, Robotics, Cloud and Data technologies, there is huge demand for application development in all domains of engineering. He also referred to the point that in the coming years, around 40% to 50% of employees in software companies will be from core branches as subject matter experts (SMEs). Thus, he insisted students not to ignore the core subjects.

The speaker concluded his talk by giving a call to the students to follow their interest and pursue their dreams. The speaker then took some questions from the students, which were very intriguing and the explanation shed some more light on technical topics of SAP and associated products.



ELECTRICAL LAB INAUGURATION

In this academic year with the guidance of Dr. Mahesh Rao, HOD, ECE, MIT Mysore the department developed a new Basic Electrical laboratory and it was inaugurated on 5th September 2018 by Dr. B.G. Naresh Kumar, Principal, MIT Mysore, Dr. S. Murali, President, MIT Mysore and Dr. Vasudev, Secretary, MIT Mysore. Department has developed well equipped Basic Electrical Laboratory with Qtronix modules.



FRESHERS' DAY



The 22nd of September 2018 was marked as a memorable day in the life of every fresher of 2018-19 batch at department of ECE, MIT Mysore. The Freshers' day was filled with excitement, joy, music, enthusiasm, laughter and happiness.

The celebration started with a formal lunch followed with the inauguration of eMITers Club by Dr. Mahesh Rao, HOD, ECE, MIT Mysore. The freshers were formally welcomed into the ECE family. The program kick-started with an invocation song followed by lighting of the lamp and HOD's brief introduction about the department and club activities.

There was cultural entertainment by the freshers as well as seniors along with few games for the freshers to get to know about the seniors. The program concluded with the vote of thanks, all the fresher's and seniors rocked the show.



ALUMNI MEET 2018



Department of Electronics and Communication Engineering, MIT Mysore organized Alumni meet on 23th September 2018 at Placement auditorium, MIT Mysore. On the date of the event, the atmosphere was festive and the feeling of homecoming was witnessed on the faces of the alumnus. They were welcomed with as registration kit comprising of a 'ALUMNI DIARY' and a Pen. the Alumnus were asked to fill in the feedback form of the institution and share the details of their current job position. The program was inaugurated by Dr. B.G. Naresh Kumar ,Principal, MIT Mysore, Dr. S. Murali, President, MIT Mysore, Dr. Mahesh Rao, Professor and Head of Electronics and Communication department, MIT Mysore and Prof. M.G. Srinivasa ,MITT.



Mrs. Maria Pavithra, Assistance Professor, Department of ECE, MIT Mysore welcomed the gathering and dignitaries to dias. Then the program was started with lighting of lamp and invocation song . Dr. Mahesh Rao spoke emotionally , touching upon the bondage he had with the students and the love shown to him by the students. He also expressed his views on the needs of continued relationship of the graduates with the department and college.



ALUMNI MEET 2018



The Alumni students shared their experiences they had during their stay in MIT Mysore..Dr.B.G. Naresh Kumar, Dr. S. Murali and Prof. M.G. Srinivasa addressed the gathering followed by cultural program by their juniors. Finally the function ended with a vote of thanks by Mr. Mahadesh K.M., Assistance Professor,MIT Mysore followed by group photo and delicious lunch.



INDUSTRIAL VISIT

BEL VISIT

In-line with the vision of the institute: "To Gift the Nation with Eminent Engineers and Managers, Capable of Contributing Towards Technological Advancement and Betterment of the Society", the Department of ECE, MIT Mysore (MITM) organized an industrial visit to Bharat Electronics Ltd (BEL), Government of India, Ministry of Defense, a Navaratna company, Outer Ring Road, Nagavara Bangalore – 560045 on Saturday, 10th November 2018.

Students of 5th semester ECE and two faculties visited to BEL, to interact with the electronics Industry and understand about the electronics devices used in defense area, most demanding technologies, PCB manufacturing sector etc.,

The departments that were mainly focused during the visit were:

1. Military communication division
2. Military radars (SBU section)
3. EMI/EMC Quality Testing

Mr Subbarao, Head of EMI/EMC test facility addressed the students and talked to them in detail about various aspects of Electronics products involved in Military equipment, how the anechoic chamber is made use in testing etc., The students also had a chance to view the control division of the anechoic chamber.

The industrial visit was coordinated by Head of the Department Dr. Mahesh Rao. The student were accompanied by Dr. Ravichandra and Prof. Anisha P.S. of ECE Dept coordinated on in-house affairs and logistics, making the visit successful. The student coordinators: Aisiri, Punith, Kavya and Nischal coordinated well with the students and ensured students complied with the necessary regulations and collected information during visit.



BHEL VISIT

Dr. Mahesh Rao ,Professor and HoD contacted Mr.S.N. Hariprasad Senior Engineer, Human Resource Development, Bharat Heavy Electrical Limited, electronics division, Bengaluru-26 seeking his guidance and permission to send students of 5th semester ECE, Maharaja Institute of Technology Mysore for an industrial visit.

Students visited the following units:

- 1) Fabrication unit
- 2) Production unit
- 3) Testing and assembling unit.

Polycrystalline wafers used for solar cells, Printed circuit boards of both through hole(TH) and surface mounted technology(SMT) types for building electronic circuitry for various sub-systems.

The students were also taken into research prototyping unit where an entire 3 floor building was run on electricity produced by solar panel and mounted on the sidewalls manufactured by BHEL itself. A high voltage direct current (HVDC) unit and the circuits used in such applications were also explained to the students.

The industrial visit was coordinated by Head of the Department Dr. Mahesh Rao. The student were accompanied by Mr. Dinesh M.A., Mrs. Nihal Mphammadi, Mrs. Manasa M.G. and Mr. Mahadesh K.M. and Prof. Anisha P.S. The visit finally concluded at 4:30pm with the students and faculty members giving their written feedback about BHEL tour .



DEPARTMENT TOPPERS



3rd and 4th Sem- Jagannath
P Srivatsa



5th Sem- Urooj Afreen



6th Sem -Divya H N



7th and 8th Sem- Hadmad
Singh