

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 competent to face the 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 of promoting collaborative and multidisciplinary activities.

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HOD MESSAGE



It gives me immense pleasure on this occasion of introducing the first edition of the news letter of **EMITERS**. We plan to bring out this newsletter once a semester from now onwards.

Department of ECE at MIT started in the year 2007 with an intake of 60 students with Prof M. G. Srinivas heading the activities of the department. Since then department has grown in leaps and bounds with an intake of 120 students now along with good laboratory facilities and class rooms, etc.

Today department is vibrant with more than 35 staff (teaching and non teaching) and has 1 PhD holder along with more than 10 faculty pursuing PhDs, while all faculties are M 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.

As always, the news letter will be focused towards bettering the student experience at ECE of MITM.

6th International Conference on Signal & Image Processing, 2017 (ICSIP-2017)

6th International Conference on Signal & Image Processing, 2017 (ICSIP - 2017) was organized on **18th and 19th August 2017** at Hotel Pai Vista, 35/A, Behind Bhima Jewellery, Bangalore Nilgiri Road, Doora, Mysuru, Karnataka 570001 under the guidance of Dr. Mahesh K Rao, HOD ECE, MIT Mysuru. The key note speakers were **Dr. Shyam Vasudeva Rao**, Founder & Director Forus Health Pvt., Ltd., **Dr. M. Shridhar**, Professor, Dept. of EE Ex-Associate Provost, University of Michigan, Dearborn, USA and **Mr. Manoj Koul** Director – Product Development Automotive Processor Business.

The international conference is being organized to mark the 10th anniversary of Maharaja Institute of Technology Mysore (MITM).

The conference is a forum for presenting new advances and research results in the fields of Signal & Image Processing. The conference will bring together scientists, researchers, engineers and practitioners from around the world to share cutting-edge research experiences, bring new ideas, debate issues and address latest developments in the domain of interest. The scope of the conference covers all theoretical and practical aspects of the Signal, Image Processing & Pattern Recognition. Authors are solicited to contribute to the conference by submitting articles that illustrate research results, projects, surveying works and industrial experiences.

From this perspective, Maharaja Institute of Technology Mysore (MITM) is organizing the 6th International Conference on Signal & Image Processing (ICSIP-2017) on August 18-19, 2017.



The topic of the conference included

<ul style="list-style-type: none"> > 3D and Surface Reconstruction > 3D and Stereo Imaging > Analog and Mixed Signal Processing > Array Signal Processing > Audio/Speech Processing and Coding > Content-based Image retrieval > Data Mining Techniques ·Detection and Estimation of Signal Parameters > Digital & Mobile Signal Processing > Face Recognition > Super-resolution imaging > Image acquisition & Medical Image processing > Image coding and compression > Image segmentation > Motion Detection > Nonlinear Signals and Systems > Signal Identification 	<ul style="list-style-type: none"> > Pattern Recognition and Analysis > Signal Reconstruction > Spectral Analysis > Statistical & Optical Signal Processing > Time-Frequency Signal Analysis > Image-Based Modeling > Image and Video Retrieval > Image Processing & Understanding > Internet Signal Processing > Knowledge Representation and High-Level Vision > Medical Image Analysis > Multi-view Geometry > Multidimensional Signal Processing > Multiple Filtering and Filter Banks > Neural Networks and Genetic Algorithms 	<ul style="list-style-type: none"> > Object Detection, Recognition and Categorization > Pattern Recognition in New Modalities > Video Signal Processing > Watermarking > Sonar Signal Processing and Localization > Speech, Audio and Music Processing > Statistic Learning & Pattern Recognition > Text processing > Biometrics and Pattern Recognition > Cognitive and Biologically-inspired Vision > Color and Texture > Communication Signal processing > Computer Communication and Networks
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A total of Papers were accepted for presentation, the presentation by each candidate was good. Both the day the participates were provided with delicious lunch. We had also organized the culture program for the participates on 18th August from 6:00pm till 8:00pm follow by a delicious dinner. The final day end with a Conclusion remarks By **Dr. P. Nagabhushan**, Professor, Dept. of Computer Science. University of Mysore. The Budget of ICSIP was made and approved by HOD. The two days of international conference was useful for all the participates and at the end of day-2 the certificates were distributed .. ICSIP 2017 was a grand success with all the cooperation by all the faculties.

FRESHERS' DAY

As an official welcome to 2017-18 batch students to the department, the department of Electronics and Communication Engineering, MIT Mysore was organized on 22nd of September 2017. The was marked as a memorable day in the life of every fresher of our department. The Freshers' day was filled with excitement, joy, music, enthusiasm, laughter and happiness.

The freshers were formally welcomed into the ECE family. The celebration started with a invocation song followed by lighting of lamp. Dr. Mahesh Rao, Professor and Head of Electronics and Communication Engineering, MIT Mysore gave brief information about department and faculties .

The seniors put up various performances like dancing, singing and skits to entertain their juniors, all the juniors enjoyed and had a great time. Later few games were organized by the seniors to the juniors and the winners were awarded with prizes. The program concluded with the vote of thanks and refreshments were distributed to all the students.



Concepts, Simulation And Real World Application Of Control Systems And Signals And Systems



The Subjects Control Systems (15EC43), Signals and systems (15EC44) and Principles of Communication (15EC45) are prescribed as Core subject to Electronics and Communication Engineering students in their 4th semester. In spite of dedicated efforts from the faculties handling the subjects, it was noted that a vast number of students were unable to realize the practical implementations of the concepts they have learnt in these subjects. Many of the students were unable make use of the Matlab tool for simulating and analyzing the concepts taught to them already in the class. After interaction with faculties, students and having a look at their performance in the first internal assessment, a decision was taken by the Department to organize a one day Workshop on 18/04/2018 in the campus and inspire students to get familiar with the Matlab tool and simulate the concepts already known to them so far.

Two experts Dr. Sanjeev Gopinathan Ph.D IISC, Professor in the Department of ECE, PES University Bengaluru and Mr.P. Vikram Kumar, MS, IIT Madras were invited as the Resource persons to the Workshop.



A list of topics like Simulation of Analogous Systems, Root Locus, Bode Plot, Nyquist Plot, Basics of transfer functions and time response of a system, basic operations on One dimensional signal, Fourier series, Noise modeling and their impact on receivers were handed over to the Trainers a week before. The Wednesday, 18/04/2018 was a holiday and the campus environment was perfect for our students to completely focus on the workshop from 8:30 am to 4:00 pm. Both the resource persons, the faculty members Mr. Ravi Kumar H, Mr. Lethan M.N., Mrs. Suma R., Mahadesh.K.M, Mr. Rajesh.N, Mrs. Niveditha H.R., Mrs. Anisha P. S., Mrs. Sowmyashree B, Mrs. Dhanushree V., Mrs. Pallavi J., Mrs. Sushanth.K.J and the students gathered at the placement auditorium as per schedule. The workshop began with a formal introduction of the guests by Assistant Prof. Mahadesh.K.M, welcome note by Dr. Mahesh Rao, Professor and Head of the Dept ECE and was soon handed over to the trainers to go ahead with their talk. Dr. S Murali, President of Maharaja Education Trust also visited the venue for a short time and interacted with the resource persons and faculties.

The students, faculties and the resource persons in the Workshop maintained good discipline and punctuality throughout the day, enabling the resource persons to deliver talk on chosen topics and the students to learn and simulate various concepts of Control Systems and Signals and Systems.

FAREWELL

A memorable farewell party was organized by the students of department of ECE, MIT Mysore on 18th May 2017 at Hotel Grand Maurya Mysuru. The inaugural function of students farewell began with inviting the dignitaries on dias. The dignitaries included Dr. Mahesh Rao, Professor and Head of electronics and communication engineering department, Mrs. Veena S K, Assistant professor and Mr. Ravikumar H, Assistant Professor.

A prayer was recited before the start of the function to make the occasion auspicious followed by lighting of the lamp. Shyni and Sandeep of 6th semester gave a brief welcome after which there was floral to the dignitaries on dias. The welcome speech was followed by a talk on brief performance report of maiden batch students graduating from the department of ECE, MIT Mysore by Dr. Mahesh Rao. Speeches were also given by the final year students about their memories, experiences during their stay at MIT Mysore. After refreshing the memories of students, mementoes were distributed to all the final year students by the faculties of the department. Also academic excellence awards were distributed to the toppers. The formal function ended with a vote of thanks.

A cultural program included group song, group dance and games organized by the juniors to their seniors. The winners in the games were awarded with a prize. The cultural program was followed by a delicious dinner.

