BITS AND BYTES

Biannual Newsletter
Department of Electronics and Communication Engineering, MIT, MAHE

Message from the department chair

I take this opportunity to thank all my faculty, staff, and students in achieving department targets in academic and research activities. This year, one of our PG programs (MTech–Microelectronics) received accreditation from NBA for 03 years. The department has also signed MoUs with several industries for academic and research collaborations. It is a matter of great joy and fulfilment that the department of Electronics and Communication Engineering has come up with Volume 5, Issue 2 of the newsletter for the year 2023. I believe that this issue of the newsletter covers all the accomplishments and the activities of faculty, staff, and students. With a long and valuable record of achievements in teaching and learning behind us, our ECE group continues to progress with honour, enthusiasm, and self-confidence. I congratulate the editorial team and all the members of the department of ECE.

Dr. Kumara shama

Department Activities

Accreditation

Department has filed Self-Assessment Report (SAR) for accreditation of PG (MTech in Microelectronics course) process by National Board of Accreditation (NBA) during December. NBA team has visited department during 10th and 11th March 2023.

The Institution of Engineering and Technology (IET) accreditation process is also in progress for both UG and PG programs of the department. Team is expected to visit during the month of April 2023.

MoU and Industry Collaboration

Manipal Academy of Higher Education (MAHE) and Semiconductor Laboratory under the Union Ministry of Electronics and Information technology have signed a memorandum of understanding (MoU) on 24th May 2023 to catalyse the electronics manufacturing and Innovation ecosystem. The collaboration has been initiated and led by ECE department.

Guest Talk by Ms. Anisha Pal

Talk on "A Guide to Higher Education Abroad" has been delivered by Ms. Anisha Pal on 7th March 2023 organized by WiE IEEE SBM. Ms Pal is pursuing her MS in Computer Science from Georgia Tech and is an MIT 2020 alumnus from the ECE department.

New B. Tech. Programme

The department of ECE launching a new B. Tech course in VLSI Design and Technology. The course structure and syllabus has been approved by Board of Studies (BOS) and University during April 2023 and will commence from academic year 2023-2024.
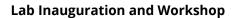
Department visit and Guest talk by Dr Manish Hooda

Dr. Manish Kumar Hooda, Head of the Technology Development Division at the Semiconductor Laboratory, Department of Space, Government of India, has visited department on March 25th, 2023, and interacted with students and faculty. He has delivered lecture in the department.

Venue: Sir. M V Seminar Hall, AB2 MIT.
Topics: "Building Resilient Semicon Supply Chains: The New India Opportunity" and "Hi-Tech Electronics Manufacturing: India's Readiness and Role of Research and educational institutes."

After the talk, Dr Hooda will interacted with the department faculty at ECE seminar hall and discussed about the semiconductor mission of India and VLSI design UG program.

Lab Inauguration and Workshop

A new lab facility on "BioPac Student Lab" has been installed in the department and has been inaugurated by Dr. (Cdr.) Anil Rana, Director, MIT on 19th January 2023. Inaugural function is presided by Guest of honour Dr. Ram Bilas Pachori, Professor, Dept. of Electrical Engineering, IIT, Indore. The new facility is aimed to help UG, PG, research scholars and faculties for the experimental analysis of bio-signals and related applications in health care.

Following the inaugural function, a hands-on workshop entitled "Bio-Sensors and their implications of real life: Research and Practical Prospects" has been held. There are two deliberations by Dr. Vaishali K, Professor, MCHP, MAHE and Hand-On by Dr. Bhaskaran BioPac system, New Delhi.

AICECS-2023

The department has successfully organized its first International Conference on Artificial Intelligence, Computational Electronics and Communication Systems (AICECS-2023) in hybrid mode during 16th and 17th February 2023.

Webinar

Webinar on "Functional Verification using System Verilog" has been delivered by the resource person Mr. Vikrant Malode, Senior Verification Engineer at Synopsys India Pvt. Ltd, Bengaluru. The event has been held in the department on 11th February 2023.

Fare Thee Well

Dr. Vemuru Hema Sundara Moorthy, Associate Professor, retired on 30th June 2023 after serving the department for more than 16 years. Farewell has been arranged on 27th June 2023; Director and Joint-director graced the occasion.

Technical Publications

Faculty members and students of the department have published 38 technical articles in various reputed Scopus indexed journals during January and June 2023. Also, there are 22 conference paper presentations and 02 book chapter publications by the department faculty and students in the duration.

Faculty Achievements

Fellowship

Dr. Anitha, Professor, Department of Electronics and Communication Engineering, MIT, Manipal has been selected by the Indian National Science Academy (INSA), for the Visiting Scientist Programme-FY2023-2024 for the period of 2 months, at MEG Research Centre, Department of Neurology, NIMHANS, Bangalore. Received the fellowship invitation on 8th June 2023.

Research Scholarship Award

Mr. Praveen Kumar, working under the guidance of Dr. Tanweer has been awarded with prestigious Kunadapur Mohan and Lata Bhandarkar merit-cum-means scholarship for his research work under science and Technology category from Manipal Academy of Higher Education. This award contains two scholarship, one is for Science and Technology category and other is for Medical Science and carries an amount of fifty thousand and a certificate. The scholarship awarded during the Founder's Day celebration on 30th April 2023 and carries an amount of fifty thousand and a certificate.

Best Paper Award

Dr. G. Subramanya Nayak, Professor, Department of Electronics & Communication Engineering, presented a paper entitled "Design and Analysis of Four Port Router for Network-On-Chip Applications" in an IOP: Journal of Physics International Conference on Artificial Intelligence, Computational Electronics and Communication System (AICECS 2023), held at MIT, Manipal, during February 16-17, 2023 and won the Best Paper Award under Communication systems track. Dr. Rashmi Samanth, our alumnus and presently Assistant Professor, Department of Electronics and Communication Engineering, Mangalore Institute of Technology and Engineering, has co-authored this paper.

Leader Development Program

Dr. Yashwanth N working as an Assistant Professor - Senior Scale in the Department has been selected to participate in the Young Leader Development Program (YLDP) - An initiation of MAHE in partnership with People in Business India Pvt. Ltd.

PhD Award

Dr. Jagadeesh Chandra R B awarded PhD for his thesis entitled "Development of Flexible Thermoplastic Composites Using Carbon Nanofillers and Metal Foils for Electromagnetic Interference Shielding" under the guidance of Dr B Shivamurthy, Additional Professor, Department of Mechanical and Industrial Engineering, MIT in June 2023 from Manipal Academy of Higher Education (MAHE).

Elevations

Participation of Faculty in Brahmakashothsava Venugopal Temple, 22-24 February 2023
Contact person: Dr. Ramya

Sports Activities

Prof Sathish Kumar M participated in the half marathon at the Manipal Marathon 2023 held on 12 of February 2023 and won second prize in the MAHE staff age 55+ category. He completed the half marathon in 2 hours, 26 minutes, and 36 seconds.

MIT bagged overall faculty sports championship for 2022-2023 and department faculties have actively involved.

The eagerly anticipated "Lagaan 2023" cricket tournament was organized by the MIT faculty club on 5th march 2023. Male and female faculty members took an active participation in the cricket tournaments.

PhD Supervision

Dr Ananthakrishna T has been approved to supervise PhD in the areas of Signal Processing, Machine Learning, Biomedical Signal Processing and Pattern recognition by Manipal Academy of Higher Education.

Alumni Achievements

Arunabha Bhattacharya, 2016 Batch of ECE department is Co-founder, CTO. He has been the part of ICMR launched drone service in Nagaland for vaccine deliveries. The project I-drone was made possible by Redwing Aerospace, a last mile healthcare logistics company that connects hard to reach areas.

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