

BITS AND BYTES

A half-yearly newsletter of the Department of Electronics and Communication Engineering
Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal



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Message from Department Chair



Hello everyone!

With the shadow of a pandemic looming large over us, the last six months have been challenging us with uncertainties, one after the other. The lockdown, the stress due to online evaluations, teaching students online with our hands tied due to numerous constraints, and so on. We have all been resilient and have risen to the occasion in one way or the other. We have handled the crises in an exemplary manner, and I can confidently say that "Tough times don't last but tough teams do" applies very well to team Electronics and Communication Engineering. Kudos to the entire Electronics and Communication Engineering department faculty members, non-teaching staff members and the students. I foresee a bright future for all of us, especially the graduating students, for if we could thrive in these uncertain times, we can surmount any difficulty.

- Dr.M Sathish Kumar

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(Editorial Team of 2020-21)

Department Activities

FARE THEE WELL



Dr. T. K. Padmashree, Professor, retired on 30 May 2020 after serving the department for more than 30 years. She has published many papers in indexed journals and conferences.



Mr. U. Harischandra, non-teaching staff, retired on 31 July 2020 after serving for more than 34 years in the department.

Academic Collaborations

- Agreement for Academic Cooperation and MoU on Student Exchange entered into between Manipal Academy of Higher Education and Academia Higher Education Colleges, Slovenia.
- Memorandum of Understanding entered between Manipal Academy of Higher Education (MAHE), Manipal and Curtin University, Perth, Australia. Also has MoU for academic research collaboration.
- Memorandum of Understanding entered into between Manipal Academy of Higher Education and The Trustees of the Steven Institute of Technology.
- Agreement between Manipal Academy of Higher Education and Universitat Politècnica De Catalunya, Spain.
- Agreement between Manipal Academy of Higher Education and National Technical Research Organization (NTRO), New Delhi.

Department Activities

WORKSHOPS

Introduction to Machine Learning

A 3-day workshop was conducted from 27th to 29th August 2020 on Microsoft Teams by Sharan Nagarajan, Uday Kiran and Akshaye Iyer. Basic concepts such as maths and algorithms used, python libraries such as NumPy and Pandas and a project were covered.

Faculty Achievements

FACULTY PUBLICATIONS

• G. Subramanya Nayak

His achievements in the International Journal of Mechanical Engineering and Technology (IJMET) include a publication on "Analysis of knowledge accomplishment of an undergraduate Engg course" based on attainment of course objectives.

• Dattaguru V. Kamath

His achievements in the International Journal of Electrical, Electronics and Data Communication (IJEEDC) include a publication on OTA Based Current Mode First Order and Second Order Amplitude

OUTSTANDING ACHIEVEMENTS

• **Dr. Anu Shaju Areeckal** (Assistant Professor, ECE) received the Fourth Best PhD thesis award in Graduate Congress: GRATE'7' (Graduate Thesis Evaluation in 7 minutes), jointly organized by IEEE ComSoc Bangalore, Hyderabad and Kerala chapters, held as virtual event on 13th June 2020.

• **Dr. Pramod Kumar** has guided Ms. Pragma Khetan to present a paper entitled "Design and Analysis of step impedance Microstrip LPF" in the Research Colloquium, "5th Student Research Colloquium on Advances in Engineering and Technology 2020" organised by MAHE, Dubai, on 12th July 2020 and have won the consolation prize for the same.

Student Achievements

Shreyans Toshniwal :-

secured first place in Autocross event(Dynamics event) of FORMULA BHARAT 2020 .He also got the "Your Software Story Award" by Ather Energy.



Sukrita Panigrahi :-

secured first place in Revels'20 Squash championship. She stood first at BITS Hyderabad ARENA'20 Squash Championship.



Nikita Agarwal :-

Worked on a Research paper on Microstrip Antennas under the Guidance of Dr. Tanweer Ali. This paper 'A Triple band Rectangular Shaped Patch Antenna for GNSS/WiMAX Applications' was accepted and published in the conference proceedings of the ICSSMT'20.

Shriti Chandral :-

Shriti's project proposal got accepted into the Google Season of Docs Internship program with Cloud Native Computing Foundation [CNCF]. Her name and project are listed as "Project 3" under CNCF on the google developers website.

Vismay sharma:-

2nd sem intersection volleyball competition first place.

CLUB ACTIVITIES

IE-E&C

IE E&C collaborated with ISTE for the annual tech weekend, wherein seven events were conducted and this event was called **CRUCIBLE**

- 1) Rig It Up
- 2) Treasure Trove
- 3) Exquisite
- 4) Codeburst



- 5) Gaming
- 6) Unlockathon
- 7) Lazertron



Swachh Bharat Workshop

IE E&C held a workshop where we learnt web development to create a page on Swachh Bharat. This workshop was in collaboration with IOSD.

ISTE

ISTE started the year with a collaboration with IE-E&C in the month of January then in the month of February ISTE conducted a git workshop in collaboration with regex manipal. ISTE held summer school in may and had our mancomm recruitments in August. In the month of July ISTE had work shops on DS Django nodejs and graphics. In the month of August ISTE had our regural content workshop