It's a matter of immense pleasure and fulfillment that the department of Electronics and Communication Engineering has come up with Volume 3, issue 1 of the newsletter for the year 2021. I believe that the newsletter will serve as a window through which the accomplishments and progress made by the faculty members, staff and students can be viewed. I am delighted to note that the faculty members and the staff of the department of ECE are committed to create an ambience for promoting innovation, creativity, and excellence in the minds of students to confidently and competently face the challenges of intensifying competition by imparting high quality technical education tied with suitable training. I believe that the newsletter will have wide circulation and the achievements mentioned in it, that will encourage and motivate the students and staff to bring many laurels to the department and to the institution. I congratulate the editorial team and all the members of the department of ECE.

Dr.G. Subramanya Nayak
Professor & Head of department ECE

It has been four long years and now, with a sense of accomplishment, I am stepping down from the leadership of this department. The mantle of leadership of the Electronics and Communication Engineering Department is handed over to Prof. G. Subramanya Nayak. I am sure that under his leadership this department will scale new heights. The help and support extended to me by both the teaching as well as non-teaching staff members and the students during my tenure as the head of the department was exemplary. Let us all extend the same help and support to Prof. G. Subramanya Nayak.

Best regards
Professor M.Sathish Kumar
DEPARTMENT ACTIVITIES

Activities
The department is planning to go for accreditation by National Board of Accreditation (NBA) for UG program during 2022 and the process is in progress. The Institution of Engineering and Technology (IET) accreditation process is in progress for both UG and PG programs of the department.

Workshops/Webinars
On 25th November 2020, a one day hands on workshop on ‘Design and Implementation of Autoencoder for the medical image segmentation’ was conducted by the IEEE SBM in collaboration with IEEE SPS. Mr. Bhargav Bhatkalkar, assistant professor (CSE department) was the resource person.

A webinar on High frequency Field effect Transistor technology for space and defence applications was held on 31-10-2020. Dr. Mahadeva Bhat Scientist FSSPL MMIC Research Center DRDO was the speaker for the session.

Technical Publications/Collaborations
Faculty members and students jointly have published 24 Journal papers in various reputed Scopus indexed journals.

Dr. Tanweer, Dr. Vinod Kumar Joshi, Dr. Goutham Simha, Dr. Sudheesh P G, Dr. Pramod Kumar have established research collaborations with other reputed Universities.

Fare Thee Well

Shri. Ravi Shriyan P and Shri. Gangadhara U, non-teaching staff members have retired on 31 December 2020 and 31 January 2021 respectively after serving more than 38 years in the department. Their long service to the department has been recognized and appreciated.
Alumni Visit

Mr. Himanshu Rawal, alumnus of M. Tech (DEAC) Batch 2003-2004, visited the department and interacted with M. Tech students.

Charge Handover

Prof. G Subramanya Nayak has taken over the charge as head of the department of electronics and communication engineering from his predecessor Prof. M. Sathish Kumar.

FACULTY ACHIEVEMENTS

Talk Delivered

Dr. Ramya has been the Panellist in "Young Professional Meet UP: Leadership in challenging times" and given talk on "Impact and possible opportunities and challenges due to the COVID19 pandemic" in IEEE International COVID19 Congress (ICC-2020) organized by IEEE Bangladesh, a socio-technical fight against the COVID 19 pandemic, held on 9-10 August 2020.

Dr. Ramya has delivered invited talk in MAHE-CII webinar entitled, “Advanced technologies of MAHE queued up for Corporate Partnership” held on 8th July 2020.

Appreciation

Dr. Somashekhara Bhat has received the appreciation certificate for “TI-MooC-Embedded Design Systems on NPTEL Platform".
**CONFERENCE PRESENTATIONS**

- Students of Dept. of ECE Rahul Patil, Ron Chudhari, VTSN Pavan under the guidance of Dr Ramya S. presented a paper titled “A Vision based GPS-Added quad copter for emergency vehicle assistance” in the CISCON-2020 Conference held on Oct 30-31 2020 at MIT, Manipal

- Student of Dept. of ECE Atharv Tendolkar under the guidance of Dr Ramya S. presented a paper titled “CareBro (Personal Farm Assistant): An IoT based Smart Agriculture with Edge Computing” in the IEEE International Conference on Multimedia Processing, Communication and Information Technology – MPCIT 2020, held during December 11-12, 2020 in JNN College of Engineering Shivamogga, Karnataka, India” and won the Best Paper Award

- Students of Dept. of ECE Rahul Patil, Ron Chudhari, VTSN Pavan under the guidance of Dr Ramya S. presented a paper titled” A Vision based GPS-Added quad copter for emergency vehicle assistance” in the CISCON-2020 Conference held on Oct 30-31 2020 at MIT, Manipal

**PROJECT CHALLENGE**

- Won the special prize in the MANIPAL COVID CHALLENGE-2020 organized by KMC MANIPAL, MIT & Innovation Center. The team consists of Dr. Ramya S, as the faculty advisor, students of Dept. of ECE, Mr Sushant Lenka and Kush Gupth in collaboration with Dr Ramya Shenoy (MCODS MLR), Dr Madhura Sen (MCODS MLR), Dr. Ayush Poddar (MCODS MLR).

- Students of Dept. of ECE Rahul Patil, Ron Chudhari, VTSN pavan under the guidance of Dr Ramya S. presented “The Vision Based Quad copter” project which was selected for the final round HACKSAGON 2020, Gwalior, a national level Project competition initiative by ABV-IIITM IEEE Student Branch, ABV-IIITM, IEEE Bombay Section and six other IIITs (IIIT Una, IIIT Ranchi, IIIT Lucknow, IIIT Nagpur, IIITDM Kurnool).

- Six students of MIT on “E-agri Info” which was led by ECE students Pratik Mohanty and Vivek Valagadri, was selected for the semi-final round of India's premier innovation and design contest, the India Innovation Challenge Design Contest (IICDC), organized by DST & Texas Instruments (TI) Inc. powered by AICTE mission, anchored by NSRCEL@IIMB and supported by MyGov

**CLUB ACTIVITIES**

- On 4th September 2020, an Online National Coding Competition, CUDA(Code Until DAwn) was hosted by MIT on Hacker-Rank. The Top-3 winners were awarded cash prizes worth Rs. 3000, Top-10 were awarded certificate of excellence and Top-20 were awarded with internships, all from Sponsoring Partner SmartBridge Pvt. Ltd

- A workshop on 'Tinkercad for Arduino’ was held by Rohan Nigam, Rujula Dabir, Varun Sriram, and Sayantan Chakraborty on 20th, 21st and 22nd of September 2020 gaining around 40 participants
STUDENT ACHIEVEMENTS

Basudha Pal has been selected for the highly competitive, fully-funded international internship cum scholarship in Canada-MITACS Globalink Research Internship.

Gokul P has been selected for MITACS for a research internship under the professors in an eminent Canadian University. His team was awarded Global Nominees and People's choice award for the NASA Space Apps Challenge.

Mr. Ajay Sahu, guided by G. Subramanya Nayak has secured the 1st place winning INR 25,000 in 'ShowYourSkill-Lite competition 2020' under Research and Papers track organized by Coursera-Manipal.

Achintya Dutta has presented a paper titled "Compact Model Parameter Extraction Using Modular Q Learning For Nano-Scale Transistors" which was presented at the IEEE International Conference in Emerging Electronics (ICEE), New Delhi, 2020. It has been accepted for publication in IEEE Xplore under IEEE ICEE Conference Proceedings.

Tanay Kumar was part of the team AeroMIT that participated in the BRICS Future Skills Challenge 2020 in Airial Robotics category which was held from 9th to 17th December 2020. The team emerged as the 2nd best Indian team after IIT Bombay and 7th overall.

Sreevatsan R has secured 3rd position in International Mars Hackathon 2020 as a member of Mars Rover Manipal.

A group of students participated in the ninth international NASA space apps challenge. The student team including Arvind, Akshaye Iyer, Gokul P, Shivam Mahajan and Rohan Nigam developed a sleep inducing deep learning model.

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