



NEWSLETTER

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Editorial

By Dr.S.A.Pasupathy

Dear Readers,

Greetings from the department of Electronics and Communication Engineering, Kumaraguru College of Technology, Coimbatore.

The evolution of IoT has significantly transformed the method of interaction between medicos and patients. As per Lucintel report, due to aging populations, medical expenditure lifestyle and chronic non communicable diseases, the global medical device market is expected to reach \$405 billion by 2023. Although India is considered a hub for medical tourism, the Indian market will reach \$4.9 Billion by 2019. The government of India also believes that the growth of medical device sector is significant in the nation building. It can be understood from the changes made in medical devices regulations and large number of funding and financial support through BIRAC. The interesting fact that the VR and AR techniques are also revolutionising not only engineering but they are also extensively used in teaching medicine. Considering all this scope, we are bringing a special issue on medical care. I would like to take this opportunity to thank Dr. Karen Panetta, Professor, Electrical and Computer Engineering, Tufts University, USA for providing a wonderful article on using live monkey in assistive technology which we have never dreamt about. A special thanks to Dr. Sabitha Ramakrishnan, Professor, EIE, MIT, Anna University for providing an article for academicians and budding engineers to pursue carrier in Healthcare sector. We trust that this newsletter provides some

knowledge on advancements in health care sector. I look forward for your continued support in bringing the newsletter.

DEPARTMENT EVENTS



Team Oxygen comprising of our students S.Gayathri(15BEC166), S. Karthikeyan(15BEC221) along with faculty mentors Mr. Navaneethakrishna, Ms.Shiji Shajahan won the **first prize with a cash award of Rs.50,000 in Smart India Hackathon 2018** organized by MHRD, Government of India at Welingkar Institute of Management, Development and Research, Mumbai.



Our students M. Mozhiyarasi(15BEC168), M. Aarthi(15BEC162), K. Mohanpriya(15BEC155) along with Faculty Mentors Mr.David,

"ACHIEVEMENTS"

Prof.V.P.Ajay reached the finals of **ACCS – Arm Design Challenge ADC2017** on "Autonomous Vehicle" at TVS Institute for Quality and Leadership (IQL), Anekal, Karnataka



Mohammed Azad, Senior Director, Mirafra Software Technologies, delivered the keynote talk on "Do we carry right skills/Are we innovating". Dr. G. Vinoth, (1996-2000 batch/ ECE Alumnus), Start-up Evangelist and Mentor, Technology Management, Consultant, Pongu Ventures delivered another keynote talk on "Innovations in Communication and Telematics".

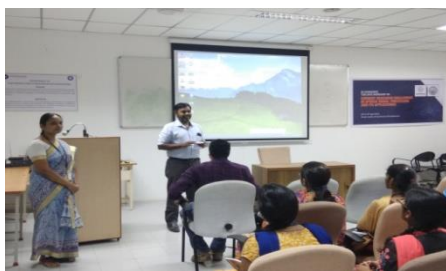


The department has organized the **sixth national conference on Communication Information Technology and Electronics (CITEL)** on 10th and 11th April. The national conference had two pre-conference

workshops sponsored by Institution of Engineers (IEI). The event was followed by the Da-Win project competition.

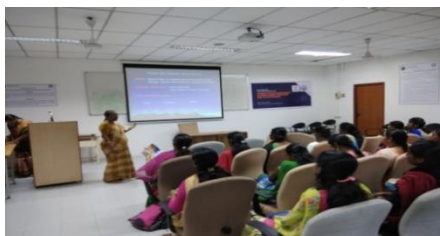
The pre-conference workshop on **"Current research challenges in speech signal processing and its applications"** and **"M2M-LORA"** attracted lot of participants aimed to deal with various aspects of signal processing and wireless technology that can be employed in Industry Automation and IOT.

The conference aimed to provide a forum for scientific debate and constructive interaction between the participants. The department received 82 research papers across the country and 52 papers were shortlisted for the presentation session.



The preconference workshop on **Current Research Challenges in Speech Signal Processing and its Application** was organized by Ms.Sasikala/Associate Professor and Mr.Arunkumar/Assistant Professor on 09.04.18 and 10.04.18. This program was intended for faculty members, students and participants from industry working in the area of Speech Signal Processing. A total of 25 students and 5 faculty members attended this workshop.

The aim of the workshop was to provide an overview on speech signal processing and its immense applications. The Course Outline and session details for the workshop include Introduction to speech signal processing, Research Challenges in Speech Processing, Overview on Speech and Speaker Recognition, Voice Response System, Speech coding / Speech synthesis and Hands-on Laboratory sessions using MATLAB and MSP430.



The first two sessions and MATLAB sessions was taught by the guest Dr. D. Govind /Amrita University.



The overview on speech and speaker recognition was taught by Dr.P.T.Vanathi/ PSG College of Technology.

The hands on session on **MSP430** was handled by Ms.S.Kavitha of STEPS



DAWINC 2018 Project Competition was an innovation challenge organized by the Department of ECE on 10.04.18 by Dr. RamalathaMarimuthu/Professor, Ms.P.Pavithra/Assistant Professor, Ms.Shiji Shajahan/Assistant Professor and Ms. Ashwini Metri/Assistant Professor. The aim of the competition is to enhance the learning and skill development of the engineering graduates to be on par with today's industry need of skilled graduates. The theme of **Da-Win-C** was such that it encouraged inventions, scientific investigations and research, and promotes their application for development of all sectors of societal needs. It was hosted in partnership with Madras IEEE Women in Engineering, Madras IEEE Photonics Society Chapter, Madras IEEE Education Society Chapter, Madras IEEE SSIT and IEEE Robotics and Automation Society Chapter, and was

sponsored by IEEE Student Activities Committee.

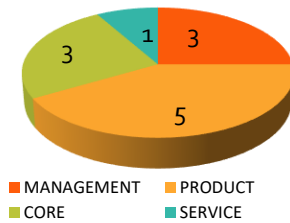
The challenge was conducted to recognize the best innovation application on the themes related to Healthcare, Assistive systems for people with disabilities, Clean water and energy, Agriculture, Waste Management, Disaster management, Women safety and Robotics

There were **115 entries** (75- external & 30 internal) **from four states** Tamil Nadu, Andhra Pradesh, Karnataka and Kerala. 45 teams were shortlisted and intimated during the first round. On April 10th, the final round was conducted. The honorable guest Mr. Mohammad Azad Abdul Kareem, the Senior Director of Mirafrta Technologies inaugurated the event. After his keynote speech on "Are we innovating?" which triggered and encouraged the young minds to think on innovation, he answered questions from the audience about how to innovate, what are the skills to be developed for innovating and how the problems for innovation lie around us.

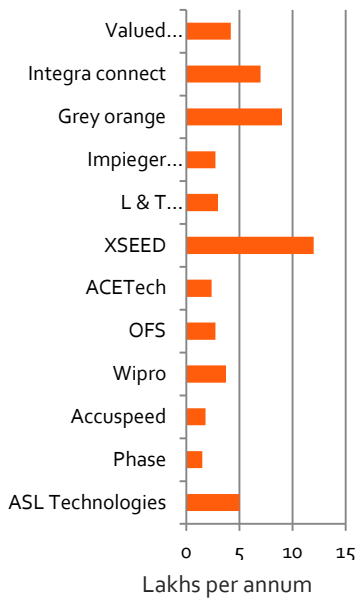
After the keynote, the competition started and the jury was Ms. Kavitha, Director, STEPS Pvt Ltd., a franchise of the Texas Instruments. She evaluated all the projects. Totally 23 teams participated and 5 winners were selected.

The Department of ECE conducted **Farewell for the 2014-2018 Batch**. The Joint correspondent, the Principal, and the head of the department addressed the students. The class advisors, mentors of the respective classes addressed the students, gave them inputs regarding career growth and the faculty had a memorable interactive sessions with the students. Few of the students shared their experiences with everyone. The best outgoing student award was given to Kesavmani and Abinaya.

Placement



Salary details



*Contributions invited for
Special edition on
“ICT in Education”.*

*Share your knowledge with us by sending us
your articles to **office.ece@kct.ac.in***





KUMARAGURU
college of technology
character is life

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Department Vision

To be a centre of repute for learning and research with internationally accredited curriculum, state-of-the-art infrastructure and laboratories to enable the students to succeed in globally competitive environments in academics and industry.

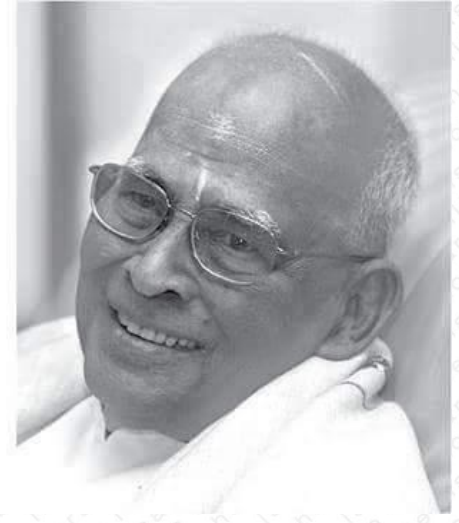
Department Mission

- Motivate students to develop professional ethics, self-confidence and leadership quality.
- Facilitate the students to acquire knowledge and skills innovatively to meet evolving global challenges and societal needs.
- Achieve excellence in academics, core engineering and research.





வணங்குகிறோம் வழிநடப்போம்
உங்கள் வாழ்க்கை - எங்கள் பாதை



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