



**CANARA ENGINEERING COLLEGE**

ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT



**NEWSLETTER**

# DHWANI

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## Department Vision

- The Department of Electronics and Communication Engineering strives to be a centre of repute by imparting quality education to produce globally competent graduates with human values.

## Department Mission

- Create conducive environment for overall development of students.
- Equip the students with technical skills to bridge the gap between academia and industry.

## PROGRAMME EDUCATIONAL OBJECTIVES

- **PEO I.** Succeed in their professional career.
- **PEO II.** Apply the knowledge of Electronics and Communication to address technological problems of industry and society.
- **PEO III.** Demonstrate leadership qualities and exhibit professional standards.

## EDITORIAL BOARD

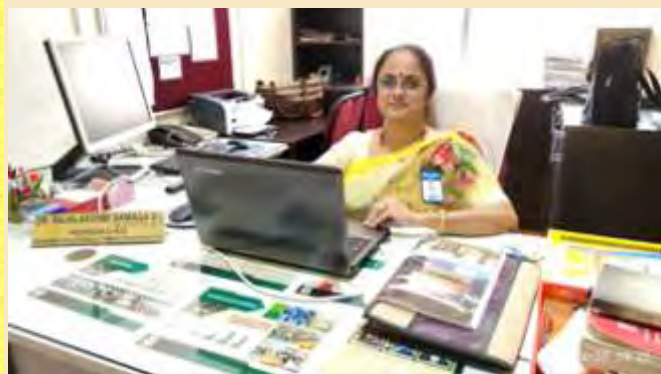
Dear Readers,

The department magazine “DHWANI” is ready to showcase the activities that are happening in the department. I feel privileged in presenting the edition of our department magazine. The purpose of the Magazine is to provide a platform to the students and staff to give expression to their original thoughts and thus develop an important aspect of their personality. This edition of “DHWANI” has loads of information about the department activities including interviews with our staff. It also includes the student achievements in co-curricular and extra-curricular activities. These show their ability to tune physical skills and achieve a competency in sports and games.

I take this opportunity to thank all those

authors who have contributed the articles and the members of the editorial board and designers. Lastly, I would like to place on record my gratitude and heartfelt thanks to all those who have contributed to make this effort a success.

## What Department Head Says



**Dr. Rajalakshmi Samaga B L**

I would like to compliment the editors of **DHWANI, 2018-19 issue - voice of Electronics and Communication Engineering Department**, for showcasing the departmental activities in a very effective manner. I thank the contributors to this newsletter.

The department has adopted Outcome Based Education system, where in industry ready graduates are produced. The department has seen a transformation during this period. The emphasis was laid on enhancement of skill sets required for placement in both personality development field and technical field. I would like to congratulate all the placed students and wish them success in their carrier.

Through this platform, I would request all the stake holders to come forward and contribute their valuable suggestions towards the development of the department.



## DEPARTMENT ACTIVITIES

❖ Talk by Dr. U C Niranjan on Entrepreneurship and career in Start Ups based on IoT and Embedded system on 23<sup>rd</sup> June 2018 at Main seminar hall between 10 a.m to 12 p.m with 125 participants



IEEECan was happy to have Dr. U C Niranjan into the CEC campus for a student interaction. The unique address by Dr. U C Niranjan to the pre final and final year students was not regarding career prospects but the challenges and fun involved in his journey with the startup venture Manipal Dot Net. The audiences were regaled by his analogy with the topology at Silicon Valley and that at MDN and his tribulations and trials. On popular demand he briefed the audience regarding various career prospects one can expect in the embedded domain.

❖ Vanamahotsava and Talk on 07/08/2018 and 16/08/2018 IEEECan organized a tree planting and awareness building symposia for 2days in association with the Department of Forests and CEC on the above mentioned Days. The local MLA was very supportive of the event and roped in the

busy DFO Dr. KariKalan Mangalore circle to the event many local ZP members and other Government officials joined hands to address the



students. The highlight of the programmes on both days were the talks by resource people who were asked to adhere to the focus on how technology intervention could help on the topics of on Biodiversity taken up by Sasya Shamala – Mr. Dinesh Kamath and on protection and cohabitation with wild and or poisonous animals as snakes etc by Mr. Kiran Pinto. The seminar halls in both instances were packed not only by interested students but also faculty. **PARTICIPANTS:** (07/08/2018 -151 & 16/08/2018 -181) Vanamahotsava – 1000 new saplings in and around CEC Campus near Bus parking and Play ground and Girls and Boy's Hostel. Venue of Talk on 07/08 – Main Seminar Hall, Venue of Talk on 16/08: ECE Seminar Hall.



- ❖ Participation in International test conference- ITC 2018 on 22-07-2018



2<sup>nd</sup> edition of ITC India was held on July 22-24, 2018 at Bangalore. International Test Conference is a world's premier venue dedicated to the electronic test of devices, boards and systems—covering the complete cycle from design verification, design-for- test, design-for-manufacturing, silicon debug, manufacturing test, system test, diagnosis, reliability and failure analysis, and back to process and design improvement. IEEECan Participation: 2 Venue: Radisson Blu (previously Park Plaza), Outer Ring Rd, Marathahalli Village Marathahalli, Bengaluru.

- ❖ Participation in SmartTech 2018 on 03-08-2018 and 04-08-2018



**IEEE Smart-Tech from IEEE Bangalore Section**, organized in partnership with NASSCOM CoE IoT, IEEE Computer Society (Bangalore Section) and IEEE Power & Energy Society (Bangalore Section), and TiE Bangalore. Fifteen IEEE Members participated in this workshop from IEEE Can. It aimed at bringing together technology and tech-culture under the theme of “Digital Transformation with Cognitive Minds and Machines: The Future of Manufacturing and Mobility”. The workshop brought together technology leaders, innovators, entrepreneurs, and thought provokers who are passionate about addressing impactful problems by turning ideas into solutions. Industry stalwarts and technology practitioners, together, shared their vision on future technologies and how they will disrupt/impact our way of working and living. The two major segments of the workshop: Digital Transformation & Cutting Edge Technologies In the Digital Transformation segment - a deep dive into the verticals of Manufacturing and Mobility, experts provided specific actionable details on: The current trends and future expectations (Plenary on Practitioner's Perspective 101), Present current implementations in this field & the challenges/opportunities thereof (It's my GEEK) and an open discussion with domain and technology experts (Rapid Fire). In the Cutting Edge Technology segment, experts and industry

leaders discussed future technologies and trends in: Digital Spine (with Robotics & Drones), Intelligence (with AI & Cognition), User experience (with AR/VR/MR), and Security (with Blockchain). A special WACI session on: ADAS, Additive Manufacturing and newer computing paradigms (such as Neuromorphic) was also featured. Participation: 15 students from CEC, from the Execom participated in the event. Venue: Hotel Sterlings Mac Bengaluru.

❖ IEEE Orientation on 18-08-2018



An Orientation Programme for Freshers was conducted by the IEEE-CAN SB in the Canara Engineering College on 18/08/2018. Students Of final year holding Positions In the Exe-com of the SB addressed the 1st year students about the various work conducted by the IEEE-CAN in previous years. Students were given a description of the working of the ieee in the college as well as around the world. The Exe-com members described their experiences with the IEEE Sb. The students were also given A brief idea of the benefits of having an IEEE membership. The Orientation marked the beginning of the IEEE membership drive for the fresher. Ms. Ashwini Holla, Branch Councilor, ended the meeting with her short speech and vote of thanks. **PARTICIPANTS:** 332 **Venue:** Main Seminar Hall

❖ Engineer's Day- e'voke on 01/09/2018



A workshop on basics of electronics, E'VOKE, was conducted by the IEEE-CAN SB in the Canara Engineering College on 1/09/2018. The First year students from all branches were solicited and then on first come first serve basis, were trained about most used electronic components and their practical uses. The students were taught the theory concepts and the practical applications and encouraged to experiment with them as the maximum learning happens via experiential mode. The Workshop Ended with A test, and project to be submitted a day later with the Best team being allotted a prize. Overall the Workshop was a success, with Students Enjoying learning new concepts. **PARTICIPANTS:** 48 **Venue** EEE Power Electronics Lab



❖ Participation in Industrial Visit to Nokia -  
06-09-2018



IEEE Can is specially indebted to the organizers IEEE Bangalore Section and Nokia University Program for taking special care to absorb the participants directly into the program, delay notwithstanding. The event started at 10:00 AM and is described as under under 4 sessions :

**Session 1:** Webinar-Future X network Architecture taken by **Ashok Rudrapatna** -Mr. Ashok spoke on Future X network Architecture, which he implied is the metaphor to cast the future. He is the director of technology of BELL LABS. Said that BELL LABS is an individual research and scientific development company which focuses on inventing the future. He mainly concentrated on the topics such as: Global trends and Challenges, Opportunities, The Future X Architecture, 5G Networks, The most fascinating and interesting topic was 5G. The outcomes of 5G network being: Extreme mobile broadband, Critical machine communication, Measure machine communication. **Session 2:** At around 11.am.



Panel discussion started, the topic was “Will Machine learning power the future”- The consists of **Dr Geeta Manjunath, Dr Srinivasan, Mr. Vinodkumar and Mr. Amit Nagpal**, the panel was led by **Arun Gopinath**. The discussion was mainly based on Machine learning advantages on various fields of technology including jurisdiction. **Session 3:** At around 2.pm. we were taken to the hardware section of the company where the working of 5G Network was demonstrated. Explanation was given on the difference between 4G, 3G and 2G networks. **Session 4:** The tour was then followed by a road show where various college project teams exhibited their project one such example is Agrobot, an agricultural device where it plants the seeds and waters the area, using IOT systems, Arduino and matrix method technology. At the end of the day, overall it was a brainstorming and enlightening session. It helped us to enhance our knowledge and technical advancement in various fields. It was a great exposure to technology. **Participants:** 2 **Venue:** L5 Building Manayata Tech Park Bengaluru.

❖ **Engineer's Day-Competition and Prize Distribution – Participants of evoke 15-09-2018**  
Teams of evoke – groups of 3 or less had to come up



with a mini project and were adjudged best by a jury constituting the Coordinators of evoke. The best team - Pawan, Padmanabh and Nitish of 1st year ECE, were awarded with a small gift of a microcontroller board by Dr. Rajalakshmi Samaga, HOD of Department of Electronics and

Communication Engineering and encouraged the winners for more such achievements to go to greater heights. **PARTICIPANTS:** 48 **Venue** ECE Faculty Room.

❖ **Training on Electrical Maintenance -14-09-2018**



The students were taught the basic structure of motors etc and wiring and various cables and different types of motors fans etc. In the later session the students were briefed about the major problems in display devices. The session was very well received. **PARTICIPANTS:** 110 **Venue** ECE Seminar Hall **Resource Person** Mr. Suresh Nayak and Mr. Ajay Shet from Electrical Maintenance dept CEC

❖ **Participation in All India Student Youth and Women in Engineering Congress 28-09-2018 to 30-09-2018 at VVIET Mysuru**





❖ Participation in Women in Technology Conference - WintechCon 2018 28/09/2018



All India Student - Young Professionals - Women in Engineering Congress (AISYWC) is the annual flagship event of IEEE India Council. It is a congregation of inventors, professionals, entrepreneurs, visionaries and some of the greatest minds in the country. This year AISYWC is the abbreviation for Aspire, Ideate Synchronize, Widen thoughts and Capture the goal. Fifteen participated from IEEE Can. Of which ECE: 3 Venue: VVIET Mysore.



The first edition of IEEE WINTECHCON - 2018 : Women's Technical Conference was organized by IEEE CAS Bangalore Chapter; In cooperation with IEEE Bangalore Section and IEEE WiE Council (IEEE Women in Engineering), Bangalore Objective: To provide opportunities to women technology leaders from India to present their work in emerging knowledge areas with the theme: Designing the Future Electronic Systems & Applications. The conference solicited papers in the fields of design, IP, verification, test, software and systems aspects of the following areas. Papers and project demos are being sought in each of these areas. IoT: Industrial, Medical and Wearables, Automotive : Radar, Safety, HEV, Smart Energy,



Computing - Hyperscale, Cloud, Cognitive, Mobile edge, Quantum, Artificial Intelligence and Data Analytics, Personal Electronics, It was mandatory that The primary author of the paper and the presenting author be a woman. There were 4 parallel sessions and many posters with 4 key note lectures and 8 demo stalls. All through the programme there was minimum to nil use of plastics all through. Sponsors included all major Companies as Qualcomm. Participants ECE: 02, Branch Councillor Ashwini V R and Miss Gayathri Rao 5<sup>th</sup> Semester ECE Venue Hotel Royal Orchid Bengaluru

❖ PCB Designing Workshop -29<sup>th</sup>, 30/09/2018 and 02-10-2018



Workshop which was conducted by ECE Department in association with IEEECan to help teach students design PCB using OrCAD PSPice software, such that they can teach their peers and build their expertise in designing their own PCBs - need by them in their projects. IEEECan in association with the Department of Electronics and

Communication Engineering Organized 3 days Circuit Design Workshop on 29th, 30th September and 2nd October 2018 for 24 students of 5th Semester. The workshop introduced participants to circuit design and hardware design concepts which are currently followed in the industry. The workshop was successful in shedding light on the various steps that needs to be followed while designing a circuit on a need basis. 4 resourcepeople Dr. Suryanarayana K, Mrs. Swathi Hatwar H & Mrs. Raksha Adappa, Dr. Suryanarayana K and Mr. Ravikiran Rao from NMAMIT, Nitte, stressed theoretical aspects required for designing - a closed loop buck regulator. Students were guided to read and understand bode plots. The workshop was successful in creating links between various theory subjects that students already learnt in their curriculum. It highlighted the importance of reading Datasheets while selecting the components from various vendors. Participants appreciated the process involved in converting circuit into working printed circuit board. Topics covered in Three days: (DateResource Person Topics) 29/9/2018 Dr. Suryanarayana K& Mrs. Swathi Hatwar H - Theoretical aspects of circuit design and Library creation using Capture 30/9/2018 Mrs. Swathi Hatwar H & Mrs. Raksha Adappa Library creation continuation and Schematic entry using Capture 2/10/2018 Dr. Suryanarayana K, Mr. Ravikiran Rao M -Theoretical aspects of circuit design, introduced PCB pad creation, footprint creation, layout and generating bill of material (BOM). **PARTICIPANTS: ECE 24 Venue ECE Seminar Hall and AEC Lab.**

❖ **IEEE Day-Visit to Shelters etc Inchara Foundation on 02/10/2018**



Volunteers from IEEECan Visited the Inchara Foundation for 2nd of October 2018. "Inchara Home for Children" was established to take care of the underprivileged children, especially those who have undergone abuse. Total beneficiary reach so far is 35000 children (will reach 55,000 by end of March 2019) and 10000+ adults. Inchara is an Incubation partner with Deshpande Foundation receiving grant for implementing "Project Angel" an initiative for preventing child sexual abuse. Inchara is also working with 2 major corporates to implement their CSR activities in Karnataka. Sessions like Drawing and painting etc were organized however the main mandate was to conduct a spelling bee competition for the differently abled people there with hearing disability using hand gestures. The day had a quiz and an entertainment session as a finale. **PARTICIPANTS: 6 venue** Inchara Home for Children Kankanady Mangalore

❖ **PARTICIPATION in KALPANA on 05/10/2018 at PESIT Bengaluru**

Kalpana a one day Technical Exhibition cum Humanitarian event of the Student Branch WiE chapter, with the sole motive of empowering women in the fields of Science and Engineering, it was a one day event to bring Technology and Humanitarianism under one roof. Engineering students from various colleges across Karnataka

were solicited to showcase their projects that aim to solve real world problems currently existing in the society today. A stringent selection process short listing the best ideas/teams who can participate at this project exhibition. The mandatory requirement was that there be at least 1 female member per team. **ECE PARTICIPATION: 06 Venue:** PESIT South Campus - Hosur Road, Near Electronic City, Bangalore, India

❖ **IEEE Day- Visit to Samvedana Foundation on 07/10/2018**



Volunteers from IEEECan Visited Samvedana a shelter home - Samvedana is an organisation that shelters 65 parentless and abandoned HIV-affected children. It has been trying its best to bring smile on the otherwise faded faces of HIV-affected children for the last nine years. It is a unit of Bangalore based. It is a unit of Bangalore based Citizens Alliance for Rural Development and Training Society (CARDTS) and is functioning in two buildings in Mangalore-one in Kadri for girl children and the other at Pumpwell for boys. Inmates of the house are between the age group of one and 18. A quiz and a few entertaining science based games were played **PARTICIPANTS: 8 Venue: Pumpwell, Mangalore**



## ❖ IEEE Day and Ada Lovelace Day Competition – 9/10/2018



The WiE volunteers got very busy this day organising 2 events - a Photo for IEEE Day and celebration of Lady Ada Lovelace day with an announcement for Can Talk2.0 with the topic Advancement of technology for humanity - by the great Indian Jugaad logic – open only for women. Phase 1 needed the participants with Gist/abstract/rief synopsis to be sent to the IEEECAN email ID in maximum 5 sentences. The screened and shortlisted entries were to be presented for evaluation at a later date. **PARTICIPANTS: 69**  
**Venue: ASRP Statue.**

## ❖ Workshop on IOT - 11-10-2018 to 12-10-2018



The Internet of Things or IoT, is a field primed to take off in the next few years. The 2 day training was designed with the objectives to understand the Engineering, Market and Innovation opportunities in IoT and to provide exposure to value chain in IoT and to learn the subject by Hands -On experiments and by using relevant Industry Standard Prototyping tools and to introduce practical challenges involved in IoT deployments through case studies and to provide exposure about Security in IoT. Day 1: Session 1: Introduction to IoT (Industry 4.0), Opportunities in IoT. A few examples of IoT systems deployed as Case Studies and the examples as - IoT Water Management System, Solar Health Monitoring, Smart Renewable Energy MicroGrid Systems. Session 2: Sensors and Actuators for IoT systems, Interfacing circuits, IoT Hardware. Programming Basics with Examples. Session 3: Interfacing Sensors and Actuators with IoT Hardware in embedded platforms with required knowledge of signal conditioning circuit design. Session 4: Industry 4.0, Discussion on the different types of protocols in IoT and how they are used in Industry 4.0 with Case studies. Introduction to Security in IoT. Day 2 Session 5: Basic Communication Protocol & Wireless Communication. Session 6: Integrating IoT hardware with Cloud platforms, with database management and data handling between the embedded devices and the server. Session 7: Android app development & Integration with IoT hardware - database management and data handling between the Smartphone and the cloud



server. Session 8: Demo of a working IoT system  
Overall Benefits and takeaways: Insight and understanding of fundamental IOT paradigms, design, construction and programming, both with respect to IoT software and hardware. Hands on experience on IOT and an opportunity to develop live projects. 41 students benefitted from the workshop. **Resource person:** Mr Jagatheeswaran Senthilvelan Lead Engineer FluxGen Technologies, **PARTICIPANTS: 41. (ECE 9)**  
**Venue:** Networking Lab and Main Seminar Hall.

❖ **IEEE Day - Paper presentation - Tech Talk 2.0**  
**13/10/2018**



Topics: For CSE/ISE/EEE/EC students were not limited to but around : Green computing, Topics pertaining to techniques for minimizing energy consumption in communication or signal processing, Topics pertaining to techniques for minimizing energy consumption or for prevention of wastage of useful energy in Electrical technology. While the Topics for EC/EEE/Mechanical engineering students: All topics pertaining to Alternate/ renewable Energy and or techniques for harvesting alternative / renewable energy. In Phase 1 Submission of soft copies to the SB email ID in IEEE format template was published on the website previously with a separate link to Registration. The screened / Shortlisted entries were selected for Phase 2: where the selected entries were-to be presented in PPT / PDF format, or using a live demo. With constraints on Max Number of slides Duration etc **Judges:** Dr Suresha D, Prof Ramesh Nayak , Prof Santhosh

Kumar D K **PARTICIPANTS: 22 ECE (5)** **Venue:** CI101

❖ **IEEE Day Student Welfare Program**  
**15/10/2018**



On the Auspicious occasion of Navarathri / Durga Puja, IEEECan conducted a Student Welfare Program for Students of 1st, 2nd and 3rd year Engineering. This event had the Senior Members of the IEEE-SB talking about the Skills which were essential for the Development of A person at a Industrial Level .For Eg: Resume Building. Soft skills Logical skills. Technical Skills. Etc. In addition to this the necessary preparations for higher studies and timing the applications etc were discussed **Resourced by :** Mr GuruDat Kamath, Mr Chethan Bhandarkar, Mr Varun Vasant Kamath, Mr Vignesh Pai. **ECEPARTICIPANTS: 105**  
**Venue: ECE Seminar Hall**



## ❖ IEEE Xtreme 12.0 20th and 21/10/2018



IEEE Xtreme is a global challenge in which teams of IEEE Student members—advised and proctored by an IEEE member, and often supported by an IEEE Student Branch—compete in a 24-hour time span against each other to solve a set of programming problems. 40 teams consisting of 102 members took active participation in the code challenge at the Cyber Lab in the campus. The major hurdle was finding likeminded mentors willing to help. The SB is grateful to the proctors, for agreeing to proctor the volunteers in time and helping in the general conduction of the event. The event started at 5:30 AM IST on 20th October 2018 morning to continue till 5:30 AM 21st October 2018. Where the coding challenges were put up in every one hour of interval, the questions were of quite difficult level which helped the students put in efforts of developing the solution for the code and burn the proverbial midnight oil enjoying the congealed noodles made for the mass of 100+ folks. At many

instances many students just gave up and went for a long break to come back refreshed. Along with the learning of solving techniques regarding the code snippet the students had a friendly and enjoying atmosphere which created an environment of "learning with fun", reminiscing the 24 hour Makeathon done 2 years back. **Proctors:** Mr PravinKumar Kalbhavi – MD Novigo Solutions, Dr Manjunath KN Prof, CSE MIT, Mr Srikanth Tunga, Mr Nitesh Pai. **PARTICIPANTS:** 102 **Venue:** Cyber Lab CEC

## ❖ IEEE Day CanTalk 2.0 Advancing Technology by great Indian Jugaad Logic - 29-10-2018



The event organised by the WiE AG: with the topic Advancement of technology for humanity - by the great Indian Jugaad logic – Topic for the eJugaad is a colloquial Hindi Bengali and Punjabi word Roughly translated, to mean a "hack." It could also refer to an innovative fix or a simple work-around, a solution that bends the rules, or a resource that can be used in such a way. It is also often used to signify creativity: to make existing things work, or to create new things with meager resources Jugaad also applies to any kind of creative and out-of-the-box thinking or life hacking that maximizes resources. It is increasingly accepted as an acceptable form of frugal engineering at peak in India. This topic was chosen to increase the creative exposition and oratory skills of the students along with promoting the ladies to come out and talk in Can Talk 2.0 open only for women. Phase 1 needed the participants with Gist/abstract/ brief synopsis to be sent to the IEEECan email ID in maximum 5



sentences. The screened and shortlisted entries were to be presented for evaluation at a later date.

**Judges:** Dr Rajlakshmi Samaga, Dr Sumathi Pawar. **PARTICIPANTS:** 11 **Venue:** CI101

❖ **Participation in Grace Hopper Celebration India GHCI by Anita Borg 16 and 17-11-2018**



The GHCI - asia's largest gathering of women technologists. It is produced by AnitaB.org and presented in partnership with ACM India. Three students from Canara Engineering College IEEE Student Branch received student scholarship to attend the event. Miss Amritha Shenoy Miss Aishwarya Kini Chair and Vice Chair WiE – IEEECan and Miss Swathi B N Chair Membership Development IEEECan

❖ **One day Summit on Technology trends and advancement in health Care 17-11-2018**



One day summit on technology trends and advancements in health care was organized by IEEECan by the support of EMBS Bangalore Chapter and Standards Association In association with IEEE Bangalore Section and IEEE Mangalore Sub Section, Dr. Annappa, Chair IEEE MSS, one of the organisers, delivered the welcome address and Dr. Niranjana U C SMIEEE - Director R&T Manipal Dot Net, the program Convenor, set the context by giving the opening remarks. The keynote address on *Clinical Engineering: A New Dimension in Healthcare*. Was given by Dr. N Sriram, Chair EMBS Bangalore, Professor and Head Medical Electronics RIT. Mr. Raghu S - Ph.D. Scholar at Maastricht University, Netherlands- spoke on *Modelling Machine Learning Algorithms For Classification Of Epileptic Seizures In EEG Signals*. Dr Rajini - VP Corporate affairs - Skanray Technologies spoke on *Ventilator technology and Emergency Medicine*.

Post tea in Session 2, Mr Rama Reddy, Department of Biotechnology Project Lab, Department of



Medical electronics, spoke on “*Medical IoT: challenges and opportunities*”. Mr Sanjay Kimbahune-Senior Scientist TCS delivered a very interesting talk on “Sensor Driven Monitoring and Assessment of Health Parameters”. Dr Shabana Urooj Head EEE dept. Gautam Buddha University Noida, addressed the gathering on “*Networking and interdisciplinary hand-shakes for significant growth of medical tech*”.

Post Lunch in Session 3, Prof. Nandish SOIS Manipal (PhD) spoke on Medical Image Processing, Analytics and Visualization - Interoperability Standard in Medical Imaging along with the “3D Volume rendering using VTK – Demo”. Dr Sampath Kumar Bhagwath MD Kumuda HeathCare, reminisced his journey into entrepreneurship, in his talk on “SPINAK - *a 3D diagnostic tool for spinal disorders*”. Finally Mr. Sandeep Patil (PhD), Executive Director, Applied Cognition Systems spoke on “*Extended Care in Healthcare Paradigm. The talk on “Need for standards and IEEE Standards in Healthcare” delivered by Mr. Munir M Mohammad a senior program officer, IEEE India office Bangalore was filled with analogies and well supported with examples and instances. Dr Ganesh Bhat, Principal, Canara college of Engg, appreciated the support from all the resource people from the Healthcare Industry and Academic /Research Institutes. Ms Ashwini V R the student Branch Councilor coordinated the event that was open for all members of the subsection – **Participants:** total registration of **159** members from 5 institutes - 2 people from the startup community. **Venue: Main Seminar Hall and Conference Room.***”

## WORKSHOPS ATTENDED

❖ Mrs. Akshatha G Baliga, Assistant Professor Attended an FDP on “Embedded system for communication application” held at NMAMIT Nitte from 18<sup>th</sup>-23<sup>rd</sup> June 2018.

❖ Mr. Ajith Kumar B P, Assistant Professor Attended an FDP on “Embedded system for communication application” held at NMAMIT Nitte from 18<sup>th</sup>-23<sup>rd</sup> June 2018.

## FACULTY ACHIEVEMENTS

❖ Dr. Rajalakshmi Samaga B L, Professor and HOD awarded 1% topper certificate with Gold Elite in NPTEL course in Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink by Dr. Yogesh Vijay Hote, IIT, Roorkee in the month of October 2018.

❖ Mrs. Savitha Acahrya, Assistant Professor awarded Elite certificate with 80% in NPTEL online course in Hardware Modeling using Verilog by Prof. Indranil Sen Gupta, IIT Kharagpur in the month of October 2018.

## PLACED STUDENTS

The Department has a record of 86 students of final year selected in Campus recruitment processes till date.



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