Dear Members,

As we prepare to shift our momentum to 2020 a New Year, I convey my best wishes and sincere thanks to one and all for their unwavering support. Beginning of a year is a time both to look back with pride on great achievements, and at the same time look forward, with ambition, to new goals and perspectives. Though the year ended and begun with heavy unrest at the national level, but at IETE we deliberated and discussed on many educational and development issues. Therefore, we have reasons to be proud of our accomplishments and look forward with enthusiasm to next year at IETE.

Dear members, for decades IETE has stood for excellence and quality, representing the interests of professionals and working with experts to strengthen services for its members. I too intend to build on the successes of the past several years through an honest and sincere work, encompassing the principles and practices of inclusion and convergence.

Dear friends, I firmly believe that if we join and act more closely together, if we intensify engagements with our members, if we support the cause of IETE more resolutely, then we can definitely strengthen our institution. Of course the challenges that we face today are different from the past but together it can be overcome.

In 2019 IETE turned 66 years and assumed more responsibilities. I am pleased to mention that in the past months, IETE and its centres collaborated with various institutions/ organizations and deliberated on significant issues. The events that witnessed focused talks were: IETE Foundation Day celebrations at Hqs and its various Centres/ Sub-Centres on the theme “Role of Artificial Intelligence and Machine Learning in the Development of Society”; IETE East Zonal Seminar & ISF Congress together with 5th International Conference on “Microelectronics Computing & Communication System (MCCS-2019)” at Ranchi; a Conference on “IoT for Real World Applications” at IETE Hyderabad Centre and 25th Sir J C Bose Memorial Lecture at Kolkata. The detailed report of these activities are published in the issue along with other regional reports.

We have couple of events lying ahead in coming months. I urge the Centres and its Executive Committee members to give objective and careful consideration to such activities and to the other publicity agendas on our working programmes. I am sure that in the spirit of open discussions and willing cooperation, we can solve mutual problems in IETE’s interest. Centre chairpersons should ensure that all regions in its aegis and professional units participate in identifying key priorities.

IETE graduates who seek admission in MTech courses in IETE’s domain areas, offered by the Institutions/ colleges as prescribed, are advised to visit our official website for terms & guidelines for receiving IETE stipend. Likewise, researchers and IETE members may like to check out for IETE Research Fellowship Scheme for obtaining support in conduct of their specialized research studies. One may also contact IETE HQs for more details.

It is with profound sadness that I inform about the sudden passing away of inspiring stalwarts of IETE, Prof B S Sonde, DFIETE; Dr P B Parikh, DFIETE; Vice Admiral SP Govil, AVSM, PVSM, OBE; Dr R S Khandpur; Gp Capt M Mukutmoni (Retd) and Prof T Krishnan. They will always be remembered by IETE fraternity for their dynamic role in promoting the cause of our Institution. IETE conveys heartfelt condolences to the bereaved families.

I take this opportunity to invite you to IETE’s 51st Mid Term Symposium-2020, our flagship event, to be held on the theme “Digital Forensics in Information Security” on 17th April 2020 at National Institute of Technology, Imphal, Manipur. We will have keynote addresses and technical paper presentations. I invite all IETE members and non-members to attend, participate, discuss and exchange information.

Friends, we still have a long way to go, and only through a joint effort we will be able to reach our fundamental goals. Together we can transform IETE into a more inclusive and participatory organisation. Strengthen IETE with us!

Happy New Year!!

Prof (Dr) J W Bakal
62nd Annual IETE Convention (AIC 2K19) & International Conference on “Industry 4.0” was held at Dr Rammanohar Lohia Avadh University (RMLAU), Ayodhya (UP) during 27th-29th Sep 2019. It was organised by IETE HQ and Dr RMLAU, Ayodhya (UP) in association with Dr Ambedkar Institute of Technology, Bengaluru, and was sponsored by TEQIP-3. Deliberations started with the formal welcome of the chief guest Padma Shri Prof YS Rajan, Emeritus Professor ISRO & Vikram Sarabhai, Bengaluru; Prof Manoj Dixit Vice Chancellor of the University; Prof SN Shukla, Pro Vice Chancellor of the University; Prof KTV Reddy, President IETE; Prof SPal, Past President of IETE and other dignitaries. Lighting of the inaugural lamp in front of Maa Saraswati was followed by University Kulgeet. Later, a University Robot welcomed everyone in the inaugural session and impressed all with his yoga and dance steps. Cheering “Jai Shree Ram” it wished for the success of the conference.

The welcome address and opening remarks were delivered by the Convener, Dr Geetika Srivastava, Assoc Prof, Physics and Electronics Dept, wherein she extended deepest gratitude to Prof Manoj Dixit, Univ Vice Chancellor and Prof SN Shukla, Pro Vice Chancellor and other invited dignitaries for their gracious presence on the occasion. Prof Ramapati Mishra, Dir IET and General Chair, welcomed the delegates to the international conference and thanked IETE for providing experienced contribution in organising this conference. He thanked honourable VC Prof Manoj Dixit for his constant support and encouragement to conduct such a prestigious conference in IET. Prof SN Shukla, in his address, highlighted the importance of the topic and the latest happening in the fields of big data, AI and its integration with industrial revolution for development of smarter automated industries. He briefed on the University’s achievements in past couple of years including launch of new job oriented programs at the University campus focusing on holistic development of the students. Prof (Dr) AP Thakare, Mentor East Zone, giving an overview of his organization (IETE) and its activities, emphasized on the need of advanced technologies in the country and urged students to take benefit from emerging industrial revolution. Prof MN Hoda, Chair TPPC IETE, expressed happiness at the conduct of the event at Ayodhya, as it was a historical place known as Ram Ki Nagri. In his address he highlighted the significance of Industry 4.0 and technologies. Prof (Dr) KTV Reddy, President IETE, addressed the gathering by highlighting activities of IETE and advised building up of professional relations with IET, Dr Rammanohar Lohia Avadh University, Ayodhya. Mementos and shawls were presented to Padma Shri YS Rajan and Prof Manoj Dixit.
Honorary Fellowship of IETE was conferred upon Prof (Dr) Ulrich L Rohde, Chairman Synergy Microwave Corporation, USA, for the year 2018-2019. Prof S Narayana, Former Director NGRI- CSIR, was conferred with Life Time Achievement Award 2019. Retiring Governing Council Members Smt Smriti Dagur, the first Lady President of IETE and Prof (Dr) M Basavaraj were honoured. After awards ceremony awardees addressed the gathering.

The 42nd Ram Lal Wadhwa Award was presented to Prof (Dr) Swades Kumar De, from Deptt of Electrical Engineering, and an Institute Chair Professor at IIT Delhi. IETE awarded Prof De for his significant contribution to cross-layer design and optimization towards resource-efficient and energy sustainable communication systems and networks. Prof De spoke on his awarded work.

IETE Best Centre Award for the year 2019 was bagged by IETE Bengaluru Centre, while IETE Delhi Centre took away the second position. In the Best IETE Sub-Centre Award category, IETE Kozhikode secured this year’s award, which was received by Prof Pratap Nair and his team members on the occasion. The Best Zonal Seminar & ISF Congress Award was won by IETE Chennai Centre. Formation of an IETE Student Forum (ISF) at Dr Rammanohar Lohia Avadh University, Ayodhya (UP) was announced and inaugurated during the Annual IETE Convention.

During the inaugural session, Padma Shri Prof YS Rajan, Emeritus Professor ISRO and Vikram Sarabhai, delivered his keynote address. Concluding the session, vote of thanks was proposed by Lt Col Dipankar Sen (Retd), Secretary General IETE followed by recitation of National Anthem by the University students.

Technical sessions were organized at Sant Kabir Sabhagar and Smart classes at the Dept of Physics and Electronics of the University. There were invited talks and more than 100 papers presented by the students in the technical sessions. The 51st Bhabha Memorial Lecture was delivered by Dr S Pal, Chairman DRDO Bangalore & Distinguished Scientist on “Indian GNSS Paradigm”. Invited talk by Dr Ulrich L Rohde, Chairman Rohde and Synergy Microwave Corporation Germany, showcased details on SDR (Software Define Radio) and IoT with the help of a short video. His talk indicated of possible transformation of the world through intelligent connected platforms.

In the valedictory session, dignitaries present included- Dr Geetika Srivastava, Convenor; Smt Smriti Dagur IETE; Prof Manoj Dixit, Vice Chancellor, Dr RMLAU; Prof SN Shukla, Pro Vice Chancellor, Dr RMLAU; Prof CS Upadhyay, IIT Kanpur and Dr Ramapati Mishra, Dir IET, Dr RMLAU. Guests were welcomed by the students and then Dr Geetika Srivastava, presented the conference report. Prof SN Shukla, Pro Vice Chancellor and Chief Guest Prof CS Upadhyay, IIT Kanpur, also addressed the gathering. Members appreciated the efforts put in by all concerned towards success of the conference on “Industry 4.0”.

In Best Paper Presentation the award was given to Shri JK Srivastava, Dr RMLAU, Ayodhya, for his paper on “Performance Analysis of a Pd-Doped SnO2 sensor for Methanol at 150 degree C using ANN technique”. Valedictory session concluded with the remarks by the Session Chair, Prof Manoj Dixit, Vice Chancellor, Dr RMLAU, who encouraged and motivated the students and advised them to come up with innovative thinking & ideas in their working fields.

Finally, IETE mementos were presented to delegates and key members for their support in conduct of all activities during international conference. Vote of thanks was proposed by Prof Ramapati Mishra, Dir IET, Dr RMLAU, Ayodhya. Program ended with the National Anthem and group photographs of the key participants.
66th IETE Foundation Day was celebrated at IETE HQ on 2nd Nov 2019 on the theme “Role of Artificial Intelligence and Machine Learning in the Development of Society”. Deliberations started with the formal welcome by Prof (Dr) JW Bakal, President IETE, offering floral bouquets to the Chief Guest Dr Neeta Verma, Director General, National Informatics Centre, Ministry of Electronics & Information Technology, Govt of India and other dignitaries on the dais. This was followed by lighting of ceremonial lamp with Sarasvati Vandana invocation. In the welcome address and opening remarks, Prof (Dr) AP Thakare, Chairman, IETE Technical Programs & Publicity Committee, expressed gratitude and respects towards Institution’s founder members, past presidents and others for working hard and contributing in making IETE a prominent professional institution. Apart from speaking on the background of TPPC Committee and its contribution in conducting various technical activities, he commented on the current societal problems and explained the importance of the theme chosen for the day. In addition, he presented an overview of the program that was to be followed for the event. Prof (Col) SL Kapoor (Retd), IETE Zonal Mentor North, highlighted activities of the IETE Centres and Sub-Centres in the Northern Zone and informed about their progress and achievements. Explaining the correlation between intelligence and knowledge he said that one should not only be knowledgeable but also intelligent. Elaborating on IETE’s motto, he urged everyone to pray for its all-round progress and himself wished for positive growth of IETE.

Prof (Dr) JW Bakal, President IETE, in his address, highlighted the activities of IETE and its services towards developing and improving technical competencies particularly in present working environment, which is a great challenge for professionals. Elaborating the importance of the Foundation Day, Prof (Dr) Bakal emphasized on the digital economy scenario prevailing in India and outlined the importance of use of Artificial Intelligence (AI) in all sectors. He said with ever increasing amount of data and presence of connectivity, big data and deep learning at one’s disposal, AI would take up to a new level of efficiency and sophistication in near future. Expressing hope, he said that invited talks on the theme would certainly provide effective discussions, understanding and information to the participants on the latest trends of AI.

The first talk was presented by Dr Debarka Sengupta, Asstt Professor, Deptt of Computer Science, IIIT, Delhi on ‘Revolution of Health Care Research with Machine Learning’. Explaining the concept of supervised and unsupervised machine learning, he elaborated on the revolutionization of healthcare research by giving three case studies. First, on the use of AI in prescribing antibiotics for removal of bacterial infection by predicting the culture report for antibiotic susceptibility and faster recovery from disease. Second case study was on autologous stem cell transplantation in multiple myeloma, which is a form of blood cancer. Comparing with normal therapy, the stem cell transplantation helps to decide with great accuracies whether to go for the operation or not. The third study described, was on the studies leading to liquid biopsy for study of cancer by drawing blood from veins and investigating for the presence of cancer in the body. He urged the present generation to go for applied research and contribute towards society.

The second invited speaker, Prof (Dr) Seshan, Asstt Prof, Deptt of EE from IIT Delhi, presented his talk on AI – Brief History and Current Challenges. Starting with relevant definitions, Prof Seshan discussed historical aspects of AI, machine learning, data mining logistics, artificial general intelligence and elaborated on recent developments and future challenges in implementing AI and ML. He laid emphasis on the future AI systems, which according to him should be robust, reliable, improved, trustworthy and able to function in a complex and ever changing environment and behavior of individuals.

The next speaker Dr Tapan K Gandhi, Associate Prof, Deptt of Electrical Engineering, IIT Delhi, spoke on “Human Inspired Artificial Intelligence –Challenges and Opportunities”. Elaborating on various aspects of AI and its human angle, he introduced Project Prakash, which is aimed at research in medical and engineering sciences for brain imaging and using AI to check blindness. Explaining detailed aspects of the Project Prakash, Dr Gandhi mentioned that the advanced AI system and high quality eye-care, built under their project, had helped curb blindness in patients of all ages.

Dr Rahul Kataria, Assoc Prof, Deptt of CSE, DTU Delhi, spoke on “Role of AI in Detoxifying Social Media Contents” through a video. Dr Kataria highlighted various aspects of applications and domains of AI with reference to social media networks. Presenting the ever increasing trends of the Facebook, WhatsApp, Tweeter and other social media tools, he explained use of AI and ML to control misuse of the social media, fake mails/photos, morphed pictures/videos etc. by deleting fake accounts and detecting spammers.

The next distinguished speaker, Prof (Dr) T V Vijaykumar, Dean, School of Computer and System Sciences, JNU, New Delhi, focused his talk on Wisdom Aspect in relation to AI. Emphasizing on wisdom, he asked one to be wise and not otherwise. He said people have overestimated AI and underestimated the human and that’s why today it has been categorized as strong AI & weak AI and also as generic AI & narrow AI. Distinguishing between calamity & disaster and wisdom & intelligence, he opined that knowledgeable people are not wise unless they make use of their wisdom. Concluded his talk, he said if someone uses wisdom, then AI is constructive otherwise it is destructive.
Technical sessions were followed by felicitations of senior IETE Members, marking it as a special feature of the Foundation Day. Chief Guest Dr Neeta Verma and IETE President Prof (Dr) Bakal honoured Prof S C Dutta Roy, DFIE and Shri ML Gupta, with IETE mementos and shawls as a token of gratitude for their long association and dedication to the Institution.

The Guest of Honour, Prof R Hariharan, Adviser, Policy and Academic Planning Bureau, AICTE, New Delhi, in his address, laid stress on the importance of AI and Machine Learning (ML) and also informed on AICTE’s planning of incorporating AI and ML in graduate level curriculum in near future. Regarding development of society, he suggested the need for formulating regulations and protecting common man from exploitations. Shri Vipin Tyagi, Executive Director & Chairman, C-DoT, in his address also gave prominence to current AI scenario and challenges present in the field in the country. He drew attention of the gathering on issues like AI patenting in the country, current research work in the area, AI ethics and data diversion/free access to data, etc. He even quoted Mahatma Gandhi’s views and thoughts on machines, saying that machines are excellent servants but very good masters as well. He called for combined efforts in the direction for benefit of the country. Prof (Dr) SC Saxena, Vice Chancellor, JIIT, also the Guest of Honour, spoke on associated intelligence with the evolution of mankind and traced the growth of AI. He was of the view that work was being done in a limited/narrow area, which is related to the limited use of human mind. But he expressed hope that with this kind of intelligence, full capabilities of human beings are being explored that may result in more good things in future.

The Chief Guest Dr Neeta Verma, Director General, NIC, Govt. of India, commending and showing her admiration on the progress of IETE, talked over applications of AI in almost all areas of technologies. According to her three important things that make AI a real entity were- affordable processing, machine generated data and maturity of algorithms over a period of time. For development of society, three important areas according to the speaker were:- healthcare, education and agriculture that required utmost attention for upliftment of population of ‘Bharat’ living in villages. Bringing out the problems in these areas, Dr Verma informed about some of the recent initiatives taken by the Govt in the direction. She thanked IETE for providing her this opportunity and concluded advising youngsters to keep pace with the latest in technologies trends and continuously keep reskilling / upgrading to be relevant and reliable in their respective fields.

After felicitations, the members were informed about the passing away of a very senior and distinguished Fellow Member of IETE- Dr PB Parikh, who was one of the founders IETE Mumbai Centre. A two-minute silence was observed as a mark of paying condolence to the departed soul. Lt Col Dipankar Sen (retd), Secretary General, IETE, proposing a formal vote of thanks, referred the day to be inspirational and exciting. He wished for three important things in his address, viz. the development of good algorithms, formation of tag data bases and increase in computing power with the development of quantum computing. Encouraging young generation to learn more about quantum computers, he thanked one and all in his concluding speech. Celebration of IETE Foundation Day came to an end with a beautifully organized cultural program by the students of Dayal Singh College, New Delhi.
Bhuwansing Ambadas Damahe (F-126212), a technocrat who has excelled himself in research, corporate training and higher technical education with an additional facet in social welfare activities. Currently, as the Joint General Manager, Larsen & Toubro Limited, Mumbai, he holds the responsibility of training fresh graduates and diploma engineers and also the existing employees of his organization with content and methodologies developed by his team. He is also the Principal of L&T Institute of Technology (Diploma Level) and this role extends upto setting up of the training centers for L&T Public Charitable Trust. His quest for research-based knowledge has seen him taking up lead roles in national level events like conferences, conclaves and competitions organized by L&T, by contributing his own six research papers at national level and one at international level. He is associated with the proposed world-class Skill Development Centre by L&T, which is a part of India’s Skill Development mission. Shri Damahe’s stint as a Research Associate with Prof P Renaud Microtechnique, at Ecole Polytechnic Federale De Lausanne (EPFL), Switzerland, gave him the exposure to research activities at the highest international levels. He has kept himself in the forefront in his interest areas, viz.; Assembly Language of Intel / Microchip Microprocessor, Microcontroller, System Design using microprocessor / microcontroller, Embedded C, IoT and Pervasive Computing etc. He is a member of Maharashtra CII Skill Development & Affirmative Action Panel; IETE; Board of Studies of VJTI Mumbai and Board of Studies for SSC, Govt. of Maharashtra. He is a Visiting Professor at BITS Pilani. Shri Damahe has left an indelible mark as a quality conscious progressive leader in all organizations he was earlier associated with. Some of these are; PCS Data Products Ltd. Bombay; Mina Fax Electronics System Pvt Ltd, Aurangabad and NIELET (Formerly Center for Electronics Design and Technology of India), Aurangabad. Shri Damahe is an alumni of VJTI, Mumbai, where completed his ME (Electronics with specialization in Computer).

Prof (Dr) Udhav V Bhosle (F-156349), is currently Hon’ble Vice-Chancellor of Swami Ramanand Teerth Marathwada University (SRTMU) since 2018. Earlier, he served Vishram Deshmukh Foundation and Manjra Charitable Trust as Director and Vice President, Technical for about 4 years. He has a total 28 years of teaching & administrative experience, including 13 years as principal at MCT’s Rajiv Gandhi Institute of Technology, Mumbai. Dr Bhosle received his PhD in electrical engineering from IIT-Bombay in 2004; ME in communication engineering and BE in electrical engineering from SGGS Institute of Engineering & Technology, Nanded in 1995 and 1989 respectively. He has successfully completed three research projects sponsored by AICTE through Research Promotion Scheme (RPS) and Modernisation & Removal of Obsolescence (MODROB). He has published about 57 papers in National & International Conference and in various Journals. Prof (Dr) Bhosle was also the Member/Chairman of Council/Committees/BOS of various Universities.

He served as Chairman IETE Mumbai Centre during 2016-18, when he was in the Governing Council.

Manoj Tuli (F-182425) is currently officiating as Senior Technical Director in National Informatics Centre (NIC), Ministry of Electronics and Information Technology, Govt of India. He joined NIC in 1990 as District Informatics Officer at NIC Centre, Giridih Bihar. He is officiating as Head of Department for e-Governance Support to Supreme Court, various Tribunals, Commissions, and Commercial Courts across India. Prior to joining NIC, he worked as an Asstt Lecturer at DEI, Agra.

Shri Tuli is an alumni and fellow member of the IETE. He completed MTech (CS) in 2005 from IETE Delhi and post graduate Diploma in Computer Science and Applications in 1988 from Dayalbagh Educational Institute (Deemed University), Agra, with distinction & received ‘Silver Medal’ for his academic performance. Later, he completed MSc (Physics) with specialization in Electronics from Agra University in 1986 with 1st Div. He has a total work experience of 3 decades in IT Govt Initiatives. He was the founding member of the NIC core team which implemented the prestigious and unique concept of “Computerization in Indian Judiciary”, at Supreme Court in 1991. He headed a team of 10 technical members at the Apex Court and designed a well-defined workflow-based system, which not only helped the registry in streamlining a Case Life Cycle but also brought transparency to the system by publishing up-to-date listing status along with cause lists for benefits of litigants and citizens. Orders and judgments were made available on the website immediately after its pronouncement. He also worked as an In-charge NIC at Delhi High Court from 2008 to 2011.

Currently, he is leading many projects on concept of ‘Paperless Courts’ at national level. Few completed and ongoing projects under his leadership were/ are with Central Electricity Regulatory Commission (CERC, a Quasi-Judicial Body); National Green Tribunal; Commercial Courts at AP, Telangana and Haryana and in initiation stage at Kolkata and at New Delhi benches for National Company Law Tribunal (NCLT). He has received eGovernance Award for end to end digital serves category for Digital Transformation (G2G and G2C category) and has been appreciated for efficient handling in Ayodhya Judgment provisioning at supreme Court website with no waiting time and negligible downloading speed.

The 25th Sir J C Bose Memorial Lecture was organized by the IETE Kolkata Centre on 30th Nov 2019. Prior to the lecture, an Executive Committee Meeting of the IETE Kolkata Centre was held in presence of President IETE, Prof (Dr) J W Bakal and Prof (Dr) H S Jamadagni from IISc, Bangalore, a special invitee, in the meeting.

During the Memorial lecture, the Chairman of IETE Kolkata Centre, Shri P S Biswas, delivered the opening remarks and welcomed the gathering. He enlightened the participants on the life details of Sir J C Bose. Uttarya was offered to the Prof (Dr) JW Bakal, President IETE and Prof (Dr) H S Jamadagni. Prof Bakal spoke about various activities of IETE and the Centre with future plans of the institution. Newsletter ‘ SIGNAL’ was unveiled by the dignitaries.

Prof (Dr) H S Jamadagni delivered an excellent talk on “Data Analytics, Visualization: Uses and Abuses”, appreciated by all. About 70 participants including corporate members, industry personnel, faculty members and students from various institutes attended the informative lecture.

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Dignitaries releasing the Newsletter
**Zonal Seminar (South) & ISF Congress**

IETE Chennai Centre organized Zonal Seminar (South) & ISF Congress on Smart Engineering for Sustainable Development during 20th - 21st Sep 2019, hosted by Sri Sairam Engg College, West Tambaram, Chennai. The programme was inaugurated by honorable Chief Guest Dr DC Pande, Co-Chairman BoRIS; and was also graced with the benign presence of Shri S Ramaswamy, Chairman BoESA; Shri RK Vyas, Co-Chairman TPPC; Dr A Rajendra Prasad, Principal, Sri Sairam Engg College; Shri Tata Sudhakar, Chairman Chennai Centre; Dr M Selvi, Hony Secretary; Dr J Raja, HoD/ECE; Dr S Sumathi, ISF Coordinator; Shri Shridharan, Hony Treasurer and EC Members. Representatives from Palakkad, Bangalore, Erode, Kochi, Hyderabad and Coimbatore, were the attendees of the seminar along with ten ISF Coordinators from various colleges.

Shri Tata Sudhakar welcoming the gathering, briefed about the Zonal Seminar programme followed by addresses of Shri S Ramaswamy, Dr A Rajendra Prasad and Shri RK Vyas. The Chief Guest Dr DC Pande released the Souvenir and handed over its first copy to Dr A Rajendra Prasad, Principal Sri Sairam Engg College. Keynote address was delivered by the Chief Guest on “Radar and its Importance”.

Paper presentation & Project competitions were conducted. Working prototypes were exhibited by the students, which were evaluated by a panel of judges including- Dr Jose Anand, Prof/ KCG College of Engg, Chennai; Shri S Ramaswamy and Shri RK Vyas. Vote of thanks was proposed by Dr S Sumathi.

Based on the rules and criteria, students’ work selected from various colleges for the cash prizes were: For Project Demonstration – 1st Prize was bagged by Sri Venkateswara College of Engineering; 2nd Prize went to Loyola ICAM College of Engg & Tech and 3rd Prize was taken away by Sri Sairam Engineering College. The colleges winning Paper Presentations were: SRM University (1st Prize); Sri Venkateswara College of Engg (2nd Prize); Sri Sairam Engg College (3rd & 4th Prizes). The function ended with valedictory & prize distribution sessions. Vote of thanks was proposed by Dr S Sumathi.

**ISF Congress**

Meet started with the welcome remarks by Shri Tata Sudhakar, Chairman, IETE Chennai Centre. This was followed by the Presidential address from Prof (Dr) KTV Reddy, meant for the students. Later a special address on initiatives under Skill Development Training Programme was delivered by Brig (Dr) VK Panday (Retd), Chairman, SD&ICC; while Shri Vinay Kakkar, Co-Chairman Publications Committee, gave a presentation on value added courses being offered by Jetking. Dr Swarna Ravindra Babu, CEO, CAISER, Chennai, delivered a technical talk on IOT and Shri J Santhan Krishnan, former Principal, Telecom Training Institute, BSNL, Chennai, expounded on 5G Technologies.

Awards declared on the occasion were as follows. For Best ISF, 1st position was secured by Sri Sairam Engineering College (Dr S Sumathi – ISF Coordinator); 2nd position was conferred to B S Abdur Rahman Crescent Institute of Science and Technology (Prof S Anusooya – ISF Coordinator) and 3rd position taken away by Vel Tech Multi Tech Dr RR Dr SR Engg College, (Prof K Saravanan – ISF Coordinator). In Most Active ISF Award category, the 1st Prize was presented to Valliammai Engineering College (Dr Komala James – ISF Coordinator); 2nd Prize to Easwari Engineering College, (Dr Jessintha - ISF Coordinator) and 3rd Prize to Jeppiaar Maamallan Engineering College, (Prof K H Shakti Murugan – ISF Coordinator). Concluding the programme, vote of thanks was proposed by Dr M Selvi, Hony Secretary.
IETE Zonal Seminar (East) & ISF Congress together with 5th International Conference on Microelectronics Computing & Communication System (MCCS-2019) was organized by Indian Society for VLSI Education (ISVE) & IETE Ranchi Centre with support of BSNL at ARITC BSNL Ranchi on 9th-10th Nov 2019. The dignitaries present on the occasion included: Chief Guest - Prof AA Khan, Former VC Ranchi University Ranchi & Former Chairman IETE Ranchi; Shri Viney Kakkar, Hony Treasurer, IETE; Prof RK Singh, Former Chairman IETE Ranchi; Prof PR Thakura, Co-Chairman IETE Ranchi; Prof Abhijit Biswas, keynote speaker, Kolkata University (WB); Shri Ajay Kumar, Mentor IETE East Zone; Shri KK Thakur, CGMT BSNL & Chairman IETE Ranchi Centre; Dr Vijay Nath, faculty BIT Mesra and General Chair NCCS-2019 & Hony Secretary IETE Ranchi; Dr Anand Kumar Thakur, faculty Ranchi Univ & Hony Treasurer IETE Ranchi Centre & Organizing Secretary NCCS-2019 and Dr Raj Kumar Singh, EC Member & Convener NCCS-2019.

Delivering the keynote speech, the speaker Prof Abhijit Biswas elucidated on the importance of research activities; issues related to plagiarism and other relevant updates. He presented the role of microelectronics in ICT. Prof A A Khan focused his talk on the topic of Nanotechnology. Inaugural session ended with vote of thanks by Dr Anand Kumar Thakur.

The 1st Technical Session had two tracks. Track 1 was on Microelectronics & Signal Processing and was chaired by Prof A A Khan with Co-Chairman Prof Abhijit Biswas. Other chairpersons included in this Track were- Dr Ajay Raghubanshi, Dr RK Lal, Dr S Chakraborty, Dr S S Sahu, Dr Raj Kumar Singh, Dr Shruti Garg, Dr Itu Snigdh and Dr Sanjeet Kumar. 20 papers were presented in this session. Track II was on VLSI Design & Communication System chaired by Dr B Acharya and the Co-Chairman Dr Arpan Deyasi. Other chairpersons included - Dr S S Tripathy, Dr Anil Kumar, Dr Sanchita Pal, Dr S K Sahana, Dr Kumar Mamta Singh, Dr KS Patnaik and Dr S Pushkar. This session also witnessed 20 selected papers for presentation.

2nd Technical Session on Artificial Intelligence & Computational System was chaired by Dr Abhijit Biswas and the domain experts who evaluated the papers were: Dr B Acharya, Dr MK Mukul, Dr P Pal, Dr Anand Kr Thakur, Dr Rajanish Kumar, Dr AK Pandey and Dr SDK Verma. 10 papers were presented during this session.

Next Technical Session on Embedded System & Internet of Things was presided over by Dr B Acharya as its Chairperson and Dr VK Jha as Co-Chair. The expert panelists were: Dr K K Senapati, Dr I Mukherjee, Dr Anil Kumar, Dr A K Tiwary, Dr Vijay Nath, Dr Tanusree and Dr S Chakraborty. Papers presented through skype were 20 in number while other 8 papers were presented on the spot.

4th Technical Session on Green Energy and Automation had the Session Chairman Dr PR Thakura and the Co-Chairman Dr Rajnish Kumar. Experts invited in the session included - Dr Raj Kumar Singh, Dr Arundayal Uda, Dr Om Prakash, Dr I Mukherjee, Dr SK Mahapatra, Dr Samama Anwar, Dr SS Sahu, Dr Dilip Kumar Singh and Dr B Chakraborty. This session saw evaluation of 22 technical papers.

ISF Congress

One special session was organized under the chairmanship of Prof Gopal Pathak, VC Technical University of Jharkhand and attended by ISF-in-Charges of various Colleges, namely - BIT Mesra Ranchi represented by Dr PR Thakura; BITT Polytechnic by Shri Nagesh Jha; CIT Ranchi by Dr S Dutta; Kolkata Centre by Dr Abhijit Biswas & Arpan Deyasi; NIT Raipur by Dr B Acharya & Dr Ajay Raghubanshi; IETE Ranchi Centre by Dr Vijay Nath, Dr Anand Kumar Thakur, Dr Anand Kumar, Dr Raj Kumar Singh, and Shri Ajay Kumar, Mentor East Zone. During the conference a Model Presentation was arranged. In the valedictory session, the Chairman announced the commencement of Winter School on Digital VLSI Design (WSDVD-2019) along with 2nd International Science Exhibition Congress (SEC-2019) from 26-30th Dec 2019 and 6th International Conference on Microelectronics, Computing and Communication Systems (MCCS-2020) on 9th-10th May 2020 at ARITC BSNL Ranchi.

During the Conference software and hardware models/papers were presented and the winners announced were: 1st Position: K Abhimanyu Kumar Patro, Abhinav Agrawal & Raushan Raj from Dept of EC, National Institute of Technology Raipur for their paper titled, “Multi-sized Multiple Text File Encryption System using One-dimensional Chaotic Map”; 2nd Position - Sudhir Sharma from Dept of CSE, Birla Institute of Technology, Ext Centre Jaipur for his paper titled, “Applying Soft Computing Techniques for Software Project Effort Estimation Modeling” and 3rd Position - Shalinil Sil and Subhomoy Dawa from Dept of ECE, RCC Institute of Information Technology, Kolkata, for their paper titled,”Smart Intelligent System Design for Accident Prevention and Theft Protection of Vehicle.”
AHMEDABAD

● The 2nd lakhnavi moot – meeting was held on 4th Aug 2019 to discuss latest developments in science and technology; contribution that have been made or can be made by individual members; steps required for the betterment of IETE etc. Smt Smriti Dagur - Immdt Past President IETE, Shri Chintan Bhatt, Past Centre Chairman, Shri Sudhir Agarwal, Centre Chairman, Shri R M Makwana – Hony Secretary and Shri Lalit Bhalotia, Member, were present and discuss the future programmes on topics of 5G Technology, Optical Satellite and Satcom Communication. The 3rd lakhnavi moot was organized on 1st Sep 2019 with prominent presence and active participation of Smt Smriti Dagur, Shri Madhukant Patel, Shri Chintan Bhatt, Shri VK Jain, Shri Sudhir Agarwal, Shri R M Makwana, Shri Lalit Bhalotia, and Shri Rajendra Gaikwad. The discussion held was on-conduct of courses for the school children (8th -12th Stds) in vacation batches; change of the name of the Institution from ITE to IETE in 1973, as recorded in the Articles of Association and Byelaws Book of IETE; on the apt topics for Zonal Seminar, viz., 5G, Optical, Quantum; Expert DTH, VsAT, DsCN; Chandrayan-II Landing; Byelaws Book of IETE; on the apt topics for Zonal seminar, viz., 5G, from ITE to IETE in 1973, as recorded in the Articles of Association and jointly celebrated.

Gupta jointly organized a one-day workshop on “Latest trends and Change” on 29th Aug welcome address. Mrs rupal Merchant, Principal/GPC delivered the Govt of Gujarat. MHRD, Govt of India and student startup & Innovation Policy (ssIP), sedani, IsF Coordinator. Ahmedabad. He is the youngest certified ethical hacker, cited in Golden 2019 in association with the IsF at LD College of Engineering (LDCE), Dr Archit somani of student forum. Lectures arranged were on “overview of AI and IETE and its activities, particularly of the Centre and commencement of student forum. Lectures arranged were on “Overview of AI and Applications”, by Shri Rajendra Gaikwad, Scientist SAC/ISRO, IETE Corp member & coordinator for this workshop; “AI Applications in Industries - Current & New Avenues” by Dr Archit Somani, Dir & CEO TraCoMo Automation & Camera Systems Pvt Ltd, Ahmedabad and “An Introduction to Artificial Intelligence & Machine Learning and its applications in Satellite Imagery” by Shri Ujjwal K Gupta, Scientist, SAC/ISRO.

● A workshop on “Cyber Security” was organized by Shri Parth Gupta, founder and CEO of Infikey Technologists Pvt Ltd, on 22nd Sep 2019 in association with the ISF at LD College of Engineering (LDCE), Ahmedabad. He is the youngest certified ethical hacker, cited in Golden Book of World Records. Vote of thanks was proposed by Dr Bhavin Sedani, ISF Coordinator.

● The Centre and LJI Institute of Engg & Tech (LJIET), Ahmedabad, jointly celebrated Engineers’ Day on the topic “Engineering for Change” on 4th Oct 2019. The Centre organized a one-day workshop on “NavIC & Gagan Applications & Technologies” with live demo of NavIC applications. The eminent members present were: Shri Nilesh Desai, Distinguished Scientist & Assoc Director, SAC/ISRO as the Chief Guest, Shri Sudhir Agarwal Centre Chairman, Dr A C Suthar, Principal, LJIET, Shri R M Makwana, Centre Hony Secretary, Prof Mosam Pandya, HoD/EC/IC, LJIET and Shri Atul Shukla, Gp Director, NaVIC, SAC-ISRO. An expert lecture was delivered on the occasion by the Chief Guest on the topic “Indian Space Program: Past, Present & Future”.

● The Centre celebrated its Foundation Day on 13th Oct 2019. Addressing the gathering, Shri Sudhir Agarwal, Centre Chairman, congratulated IETE Ahmedabad members for receiving an award in best research oriented paper category-IETE-CDIL Award for Industry-2019. The Chief Guest Dr SB Chakrabarty, Scientist/Engineer-SG and Head, MSAD, ASG, SAC/ISRO, delivered his talk on “Electromagnetic Modeling of Spacecraft System”. He focused on the requirements of a typical satellite payload & space craft, electromagnetic modeling, trends and challenges, speciality of EM modeling, comparison of different EM modeling methods and introduction on integral and differential equation methods, mode-matching with examples. Another expert talk was delivered by Shri B K Pandey, Scientist/Engineer, MSAD, ASG, SAC/ISRO, on “Common Aperture Dual-Band Dual-Polarized Planar Micro Strip Antenna”. He spoke on the advantages & working principles of microstrip antenna, dual frequency antenna elements in literature, development of shared aperture dual frequency antennas, design of shared aperture dual polarized planar array at L and S bands, measured results of planar array, and future scopes in the field. Both talks were well received. Vote of thanks was proposed by Shri R M Makwana, Centre Hony Secretary.

● 66th IETE Foundation Day on “Role of Artificial Intelligence and Machine Learning in the development of Society” was organized on 24th Nov 2019. Dr K K Sood, Dy Director, SSAA, SAC, ISRO was the Chief Guest and invited theme speakers were: Dr Mitesh Dadhania, MD, Teksun Lab Pvt. Ltd and Prof (Dr) Vibhaben Patel, HoD, IT, VGEC, Chandkheda. Shri Sudhir Agarwal, Centre Chairman, welcomed the gathering and briefed on activities of the Centre. He read out the message for the day from President IETE. Dr Mitesh Dadhania presented his views on Industrial development of AI & ML and trends of smart people to smart machinery, smart farming, smart home, smart cities etc. Various verticals application areas of agriculture, automation industry, home automation, healthcare, education, ministry & external affair, media, entertainment, space and aerospace, finance, banking & economics, etc. were taken up. Talking of benefits, he said that AI & ML enables to perform and achieve various tasks like identification, remarking, prediction, tracking, navigation, signaling, deep learning, data transportation, data analysis, image processing, decision making etc. Expressing his views on Artificial General Intelligence (AGI), he opined that it would be the last invention wherein the machines would start inventing everything itself and start working without support of human beings or their intervention. Rather machines would not accept and obey commands from human beings, which would be the most dangerous and can be the last phase
of human civilization on this planet. Prof (Dr) Vibhaben Patel in her address described the Trending Technologies. She said that the world is at the cusp of the fourth industrial revolution- AI, IoT, 5G telephony, nanotechnology, biotech, robotics, quantum computing. She displayed machine learning model, types of learning - machine learning & deep learning, deep neural networks learn hierarchical feature representations. She explained various applications like automatic colorization, self driving cars, earthquake prediction, stock market analysis. etc. She said that advent of the internet and the knowledge economy didn’t put us out of work, instead, each of these innovations made us more productive with elimination of very few job categories. Chief Guest, Shri K K Sood spoke on the theme of the day including some useful applications of AI & ML. Mrs Preeti Agrawal, EC member coordinated the programme and Centre Hony Secretary proposed vote of thanks. Programme was attended by about 40 IETE members.

ALLAHABAD

• To perpetuate interest in fields of research, Prof S N Ghosh had made an endowment to IETE Allahabad Centre to organize every year a research level lecture by an eminent scientist of India or abroad and recognize his outstanding contribution and achievements in the field. This year this prestigious award was conferred upon Dr K P Mishra, Former Head, Radiation Biology and Health Science Division Bhabha Atomic Research Center, Mumbai, and Ex Vice Chancellor Nehru Gram Bhatti University, Prayagraj on 17th Oct 2019. The award was conferred by Shri Kearsri Nath Tripathi, former Governor of West Bengal & Bihar. The awardee delivered his award lecture on Ionizing Radiation a boon for diagnosis and treatment of Cancer, Nuclear Science for Human Health. He spoke on the remarkable progress made in radiation therapy over the last century that has helped our ability to effectively focus and deliver radiation to the tumour target volume. He mentioned about discoveries and technology inventions on oxygen mimicking drugs and apoptosis inducing drugs. Outlining the promises of rapidly developing AI based new tools in diagnosis and treatment of cancer cells, he also informed about cobalt radiation therapy and proton therapy. The lecture concluded with the vote of thanks delivered by Prof (Dr) R S Yadav, Centre Hony Secretary.

• 66th IETE Foundation Day was organized by the Centre on 2nd Nov 2019. Prof (Dr) R S Yadav, Centre Hony Secretary, expressed his views on celebrations of IETE Foundation Day. On the occasion Prof K K Bhutani, Director, UPTECH, the Chief Guest, delivered a lecture on “Role of Artificial Intelligence & Machine Learning in the development of Society”. Prof S G Prakash, Ex Dean, Science Faculty, University of Allahabad, also presented his views. Er P N Gupta and Er G S Shukla graced the event as well. Vote of thanks was proposed by Prof (Dr) R S Yadav.

BANGALORE

• The Centre conducted an inaugural program of the “Summer School in Electronics & Computers (SUSIEC-2019)” on 28th Apr 2018 in the gracious presence of Shri P Radhakrishnan, Outstanding Scientist & Associated Director, LRDE (DRDO) Bangalore, the Chief Guest and Shri Rabindra Srikantan, MD, ASM Technologies Ltd, the Guest of Honour on the occasion. Shri Satyanandan, Hony Secretary welcomed the gathering. The Course Director, SUSIEC’19 - Dr CV Ravishankar, introduced the Chief Guest. Shri Rabindra Srikantan distributed tool kits to the students during the programme. Prof H S Bhatia, Centre Chairman presided over the function while Shri Jagannatha Rao, Hony Treasurer, proposed the vote of thanks.

The valedictory function for SUSIEC-2019 and Dr S Srikantan Memorial Award was together organized on 19th May 2019. The dignitaries gracing the occasion were:-Prof B S Sonde, Former VC, Goa University and former President IETE, the Chief Guest; Dr Rabindra Srikantan, MD, ASM Technologies Ltd. Bangalore and Dr MVKV Prasad, Dir, ADE, Bangalore, as Guests of Honour. Shri C Satyanandan, Centre Hony Secretary welcomed the dignitaries and the gathering. Dr R Srikantan expressed his gratification on well organized function and thanked IETE Bangalore Centre for associating them as well. Dr C V Ravishankar, Course Dir, read out the names of the prize winners and those who helped in making SUSIEC-2019 a great success. Prof H S Bhatia, Centre Chairman delivered the presiding address and Shri Jagannatha Rao, Hony Treasurer proposed vote of thanks concluding the programme.

• 51st World Telecommunications & Information Society Day was celebrated on 17th May 2019 by arranging a talk by Dr M H Kori, Diffete, former Governing Council member and Chairman, IMAPS India Chapter, on ‘Bridging the Standardisation Gap’. Shri N Janardhana Rao, ITIS, Principal Gen Manager, Bangalore Telecom Dist., BSNL was the Chief Guest, who was introduced to the audience by Shri C Satyanandan, Centre Hony Secretary. Shri CP Dwivedi, Centre Vice-Chairman read out the message from Secretary General ITU. Prof H S Bhatia, Centre Chairman, presided over the function that also witnessed the release of 4th edition of the IETE Bengaluru Centre’s Magazine. Vote of thanks at the end was proposed by Shri K S Ravi, Centre EC member.

• Conduct of CA examinations were organised by the Centre during 27th May–13th Jun 2019 under the supervision of Dr D C Pande, Governing Council member, while AMIEte and DipIETE examinations were conducted during 15th–22nd Jun 2019 under the control of Prof C Murali, former GC Member and Dr M H Kori, Diffete, former GC Member and Chairman, IMAPS India Chapter, as Superintendents of Examination (SoE).

• Prof A Chockalingam, IISc, Bangalore, delivered Prof N S Nagaraja Memorial Lecture on “5G & Beyond” on 30th Jun 2019.

• A short term course/one-day hands-on workshop were conducted on “Embedded Systems & Design” by Shri Malhar Deshpande on 2nd Aug 2019.

• A technical talk on “Intelligent Connectivity - The fusion of 5G, AI and IoT” was delivered by Prof C Murali, on 30th Aug 2019 at Sairam Engineering College, Anekal.

• Shri Anil Kumar T S conducted a short-term course on “Advanced FPGA Design” on 1st Sep 2019.

• The Centre together with Sri Mangala Shikshana Samiti, Bangalore organized a technical awareness program on “Computers Education for Rural Areas School Children” at Sri Veena Makkala Mandira, Bangalore on 14th Sep 2019 for about 70 girl students of 6th & 7th standards along with their teachers. Shri Govindaraju, Head Master and representatives from Sri Mangala Shikshana Samiti -Sri Ashwathanarayana and Sri Venkatesh were also present during the program.

• The Centre jointly with C-DAC conducted a foundation course on Internet of Things (IoT) on 15th Sep 2019 as part of ‘Engineers’ Day’ which was inaugurated by Shri Shashi Prakash Gupta, Director, HR, ITI Ltd, Bangalore. Aim was to bring students, academicians, research scholars and professionals in the working field together to share knowledge, views and ideas on the concepts of IoT. The course focused on – i) IoT Device Technologies: Sensors, Actuators, Gateways, Servers/Cloud Computing in IoT/Big Data in IoT; ii) IoT Protocols: Network Technologies WSNs, Networking Protocols, Application Protocols; iii) IoT Security: Security of devices and networks with resource constraints and iv) IoT Applications. The programme was presided over by Prof H S Bhatia, Centre Chairman.
Shri Satyanandan, Hony Secretary. Shri CP Dwivedi, Centre Vice-Chairman introduced the Chief Guest. Shri Jagannatha Rao, Hony Treasurer, proposed vote of thanks preceded by a panel discussion among the experts present from Industries. It concluded with national anthem. In addition, an IoT Lab was inaugurated at the Centre, wherein 25 students could work at a time and has been equipped with C-DAC Research Lab Kits and Desktop PCs.

Evening celebrations witnessed Chief Guest Ms J Manjula, DG (ECS) DRDO, releasing the 5th edition of the quarterly journal ‘IETE Bengaluru Magazine’. Others present on the occasion were:-Shri Satyanandan, Hony Secretary; Shri CP Dwivedi, Vice Chairman; Prof HS Bhatia, Centre Chairman and Shri KS Ravi, EC member.

- The Centre celebrated Ayudha Pooja Mahanavami/Ayudha Pooja on 7th Oct 2019, wherein the rituals were performed by Wg Cdr HR Parthasarathy (Retd), former Centre Chairman and former GC member. Members present, offered their prayers.

- The Centre and International Micro Electronics Packing (IMAPS), India Chapter jointly organized a one-day workshop on “Machine Learning and its Applications” on 20th Oct 2019 in association with Dept of E&C, Ramaiah Institute of Technology (RIT), Bangalore. The inaugural session was attended by dignitaries, namely- Prof HS Bhatia, Centre Chairman; Dr MH Kori, Chairman, IMAPS, India Chapter; Dr S Sethu Selvi, HoD/Dept of EC, RIT; Dr Ashok Rao, former Professor, IItc, Bangalore; Dr CG Raghavendra, Centre EC Member and Shri K Sreedarshan, AP/Dept of EC, RIT. Prof HS Bhatia talked on the positive effect of mutual learning and knowledge sharing. Dr MH Kori spoke on the importance of machine learning, relating it to cosmology and radio astronomy. He informed that the signals which are received from outer space had to be processed eventually and therefore processing is of prime importance. Dr CG Raghavendra and Shri K Sreedarshan were instrumental in organizing the workshop.

- Prof C Murali, former GC member was the resource person for an open course on “Electronic fundamentals as applicable to Industrial needs” held at BMS Institute of Technology & Management, Bangalore on 22nd Oct 2019.

- Exams for the Institute of Chartered Accountant India (ICAI) were conducted during 1st Nov 2019-20th Nov 2019. Dr DC Pande, GC member was the exam superintendent while Prof HS Bhatia, Centre Chairman and Shri B N Jagannatha Rao, Centre Hony Treasurer were the chief invigilators.

- The Centre celebrated 66th IETE Foundation Day on 10th Nov 2019. Prior to the function, a meeting was held with the ISF coordinators. Dr GK Venkatesh, Convener of the meeting and other office bearers participated and explained their progress and other activities. A two-minute silence was observed in memory of Prof BS Sonde the doyen of Science and DFIETE & Past President, IETE, who passed away on 9th Nov 2019. Shri H Ramakrishna, Sr Fiete, who knew Prof Sonde closely, recalled few incidents that showed the kind and loving nature of the great scientist, vide his address. Shri Satyanandan C, Centre Hony Secretary read out the President’s message for the day. Prof (Dr) G Indumathi, ECE/MEPCO Schlenk College of Engineering, Sivakasi, recipient of NV Gadadhar Memorial Award, delivered a talk on “Resource Allocation in Wireless Networks”. Prof HS Bhatia, Centre Chairman, presented her the citation, medal and cash prize. Dr MH Kori, Former Tech Dir, Alcatel Lucent Technologies and Past Chairman Bangalore Centre, delivered a lecture on “Role of Artificial Intelligence and Machine Learning in the development of Society”. Shri H Ramakrishna (F-141728) was felicitated on the day by the Centre. Dr DC Pande, GC Member, presiding over the function, also paid tribute to late Prof Sonde in his address. Shri KS Ravi, EC member, proposed vote of thanks.

- A three-day IRSI-2019 Symposium organized on the theme “Cognition in Radar Sensing” on 12th Dec 2019 at NIMHANS Convention Centre, Bangalore. Pre-symposium tutorials were conducted on 10th-11th Dec 2019. Experts from India and abroad gave their presentations. Topics included for the presentations were: Cognitive Radars- from Smart Radars to Inverse Reinforcement Learning; Modeling Multifunction Phased Array Radars with MATLAB and SIMULINK; Knowledge-based Radar Signal and Data Processing; Advanced Target Detection Techniques of Low Observables; Quantum Radars; MMIC Design Workshop; Very High Resolution SAR; Microwave and Millimeter wave Components for Radar and other Applications and Cognitive-Aided Space-Time Adaptive Processing for Airborne Radar.

The event also witnessed IETE-IRSI Awards 2019 ceremony being presented on the occasion. Radar India exhibition with participation of key players from the Industry was inaugurated by Prof (Dr) J W Bakal, President IETE.
Prof Prabhjot Kaur, Dir, Research and Placement, UGI, introduced the Chief Guest Prof (Dr) Sushil Kumar Kaura, Centre Chairman and Shri Subhash Chander Jain, Hony Secy, as Guest of Honour on the occasion. Shri Jain delivered a talk on “Modern Tool of the Present Day Communication”, while the Director Academics, (Dr) Virender Kaur highlighted the learnings that we get from the life of Sir Mokshagundam Visvesvaraya.

IETE Chandigarh Centre on Engineers’ Day – 2019

- The Centre and Dept of ECE, ISF at Chandigarh Group of Colleges (CGC), Mohali (Punjab) jointly organized one-day workshop on Internet of Things (IOT) & Artificial Intelligence (AI) on 16th Oct 2019. Dr Rajneesh Talwar, Principal, CGC, delivered the welcome address. The dignitaries present included- (Dr) Sushil K Kaura, Centre Chairman and Shri Subhash Chander Jain, Centre Hony Secretary. Shri Sunny Kumar & Shri Abhishek from M/s Innovation & Design Technologies, Chandigarh introduced the students to the scope of IoT & AI and its applications. Shri Naveen Jha from M/s Digital Tomorrow Pvt Ltd, Chandigarh discussed the technical details of IoT & AI and about its various applications involving different branches of engineering. Vote of thanks was proposed by Dr Sajjan Singh, Head/ECE.

- Marking the 66th IETE Foundation Day of the Institution, the Centre organized a technical talk by Dr Aparna Akula Ghosh, Sr Scientist, Computational Instrumentation CSIR-CSIO, Chandigarh on the theme topic “Role of Artificial Intelligence and Machine learning in the Development of Society” on 2nd Nov 2019. Prof (Dr) Sushil Kumar Kaura, Centre Chairman, delivered the opening remarks. Prof R K Sinha, Director, CSIR-CSIO, Chandigarh & Immdt Centre Past Chairman presided over the function. A message from President IETE for the day was read out by Shri Subhash C Jain, Centre Hony Secretary. A technical presentation competition on AI was arranged for ISF students. Teams participating from different ISF colleges were-CGC-COE (CSE), Landran, Mohali; SVIET, Banur; CGC-COE (ECE), Landran, Mohali; Chitkara University, Rajpura; CGC Jhanjeri, Mohali and Chitkara University, Baddi. Dr Prasant Kumar Mahapatra, Centre Hony Treasurer, proposed vote of thanks.

CHENNAI

- The Centre together with Coovum Advanced Institute for Science and Engineering Research (CAISER) Chennai, organized a one-day hands on workshop on “IOT–Amalgamation of Technologies” on 12th Jul 2019. About 70 members attended this workshop.

- 66th IETE Foundation Day on the theme “Role of Artificial Intelligence and Machine Learning in the development of Society” was organized on 9th Nov 2019. Shri CR Sasi, Director, Munoth Industries Ltd, graced the occasion as the Chief Guest and Prof (Dr) TV Gopal, Dept of CS&E, Anna University, as Guest of Honour. Dr Tata Sudhakar, Centre Chairman, after his welcome remarks delivered his technical address based on the theme. President’s message was read out by Shri S Ramaswamy, GC Member. The Guest of Honour, Dr TV Gopal delivered an interesting presentation on the evolution of Artificial Intelligence and its current trends. Dr CR Sasi shared his experience on programs conducted by IETE in the past for the disables and insisted on use of current AI technologies for the betterment of society. Senior veteran member, Prof (Dr) N Gunasekaran (F-050758), Anna University, was felicitated during the event. Vote of thanks was proposed by Dr M Selvi, Centre Hony Secretary.

COIMBATORE

- A two-day workshop on Data Acquisition System was conducted during 14th-15th Feb 2019 by Dr S Balamurugan, Member of the Centre and Assoc Prof–EEE, Amrita School of Engineering, Coimbatore. It was held in conjunction with Anokha Engineering Techfest. Technology Exhibition & demonstration for Data Acquisition Systems was also shown.

- A one-day Women Empowerment Program was organized on “WebWiz & Web Designing Contest” for girl students on 7th Mar 2019 by Mrs KR Bindu, Member of the Centre and AP/CSE, Amrita School of Engineering, Coimbatore. Aim to encourage development of skills in girl students for web designing. About 30 girl students attended.

- AiSmartHackathon 2019 in association with Intel software was organized by the Centre. This unique event was conducted in three phases during the months of Aug and Sep 2019: 1st Phase: Idea Submission during 16th-25th Aug 2019; 2nd Phase: Prototype Development during 26th Aug- 6th Sept 2019 and 3rd Phase: Onsite hack on 7th Sep 2019. About 50 Colleges/ISFs participated. Each team consisted of 3 students and a faculty mentor. Prizes were distributed by Col (Dr) PN Kumar, Centre Chairman, after completion.

- A three-day workshop on Machine Learning during 21st-23rd Oct 2019 was organised in association with Dept of CSE, Amrita School of Engg, Coimbatore. It was inaugurated by Dr (Col) PN Kumar, Centre Chairman. The objective was to introduce Machine Learning (ML) concepts. Topics covered during the workshop included ML concepts, mathematical importance about linear regression and principal component analysis, KNN and K-means algorithm, optimization techniques and concepts of linear algebra, decision tree and hidden Markov models, LDA and SVM classifier concepts. Hands-on session was conducted in Python for the benefit of the participants of the workshop, coordinated by Dr B Rajathilagam.
● Another three-day workshop and mini-project course on Physical Layer Security–Theory to Practice, inaugurated by Dr M Jayakumar, Centre Vice-Chairman was organized during 13th-15th Nov 2019 in association with Dept of ECE, Amrita School of Engg, Coimbatore and supported by DRDO. It was aimed at imparting core competency in methods of physical layer security starting from fundamentals, design of schemes, implementation and further research. Lectures delivered were on fundamentals of physical layer security, information theoretic security, secret key generation schemes, security in cooperative networks and IoT. In addition, workshop included simulation and emulation of Physical layer on “GNU Radio and USRP”, coupled with hands-on for the participants through lab sessions. The speakers were – Dr Navin Kashyap, ISc, Bangalore; Dr Parthajit Mohapatra, IIT, Tirupati; Dr Albert Sunny, IIT, Palakkad; Dr P Rajalakshmi, IIT, Hyderabad and in-house experts. Participants comprising faculty, research scholars, PG & UG students of various ISFs & engg institutions participated. The event was coordinated by Dr R Ramanathan, Centre EC member.

DELHI

● IETE Delhi Centre celebrated International Yoga Day in collaboration with IETE IGNOU RSC-38036 on 21st Jun 2019. Event was inspiring and motivating for the staff members and students. Programme concluded with vote of thanks by Shri BB Rishi, Centre Hony Treasurer, followed by the National Anthem.

● Independence Day was also observed with IGNOU RSC-38036 on 12th Aug 2019. Dr VS Panwar, Centre Hony Secretary and Shri BB Rishi, Centre Hony Treasurer, hoisted the Indian tricolor. National Anthem was sung by one and all with full enthusiasm. Dr VS Panwar thanked everyone for their participation.

From left to right Dr G Murugesan, Thiru P Sachithanandan, Dr R S Sabeenian, Dr V Balusamy & Dr D Malath

GOA

The Centre celebrated IETE Foundation Day on 30th Oct 2019. Dr Rohan Mukherjee, Faculty Goa Institute of Management, Big Data Analytics, was the Chief Guest & keynote speaker. The President’s message was read out by Ms Sonia Kuwelkar, Hony Secretary, Dr HG Virani, Centre Chairman, spoke about technical activities of IETE Centre. ISF at Goa Engineering College (GEC) was reconstituted & inaugurated at the hands of the Chief Guest. Active selections were: Shri Rohan Kumar, Chairman; Ms Sahana Kulkarni, Hony Secretary; Ms Rajvi Lawande, Treasurer and Shri Sumeet Lohar, Ms Elaine Fernandes, Ms Calida Mascarenhas, Ms Crizel Fernandes as executive members. Dr Rohan Mukherjee gave an overview of various applications of AI in Society. Vote of thanks was proposed by Chairman of ISF, Master Rohan Kumar.

HYDERABAD

● On the occasion of 73rd Independence Day, Indian National Flag was hoisted by Prof A Ravi Kumar, Centre Chairman on 15th Aug 2019 at IETE Hyderabad Campus.

● The Centre celebrated 66th IETE Foundation Day on 2nd Nov 2019. On this occasion Prof (Dr) Vinette Padmanabhan, Professor, School of Computer and Information Science, University of Hyderabad, Chief Guest, delivered a lecture on “The Role of Artificial Intelligence and Machine Learning in the Development of Society”. About 19 ISF colleges participated in the activities namely- Poster Presentation; Paper Presentation; Essay Writing Competition; Group Discussion; Technical Quiz; Technical Presentation; Technical Talk; Ethical Circuits and Video Making. Some senior members were felicitated on the occasion which includes respected members from Hyderabad-Prof S Narayana (DF-
026368): Prof K Laxminarayana (DF-062796); Dr V Gunasekhar Reddy (F-122825) and Shri VVN Rao (F-019797).

**KAKINADA**

On the occasion of 66th IETE Foundation Day celebrations, IETE Kakinada Centre organized a guest lecture on “Role of Artificial Intelligence and Machine Learning for Society” on 2nd Nov 2019. Prof (Dr) B Prabhakara Rao, Vice-President IETE and Former Rector of JNTUK, Kakinada graced the event as the Chief Guest. Others present on the occasion were: Dr I Santi Prabha, Centre Chairperson & Rector, JNTUK, Dr BT Krishna, Hony Secretary, Dr K Rama Devi, Hony Treasurer, Prof (Dr) L Sumalatha, Director IIIT&P, JNTUK (resource person) and Dr N Balaji, Director (Admissions), JNTUK, including teaching staff and students of UG & PG.

**KANPUR**

- **52nd Engineers Day** was celebrated jointly with the IE(I), Kanpur local centre and the IEEE, UP Section, on 15th Sep 2019 at the Outreach Auditorium, Indian Institute of Technology, Kanpur. Prof N B Singh, Vice-Chancellor, HBTU, Kanpur, graced the event as the Chief Guest, while Er Anvesh Kumar Singh, Zonal Head, Customer Technical Services, JK Cement Ltd, as Guest of Honour. Prof Asheesh Kumar Singh, HoD/EE, MNNIT, Allahabad, as the theme speaker, delivered his address on “Engineering for Change”. Earlier, Prof DP Mishra, I P Chairman, IE(I) Kanpur Local Centre, delivered the welcome address. Er CP Varma, Centre Chairman, presented the life-sketch of Bharat Ratna, Sir M Visvesvaraya. Introduction of the dignitaries were given by Prof Kumar Vaibhav Srivastava, Centre EC member.

- The Centre celebrated the 66th IETE Foundation Day on 17th Nov 2019. The dignitaries for the day were: Dr Rachna Asthana, Director, Dr Ambedkar Institute of Technology for Handicapped (AITH) Kanpur, the Chief Guest; Prof J Ramkumar, IIT, Kanpur, the keynote speaker, who delivered his address on “Role of Artificial Intelligence and Machine Learning in development of Society”. Er C P Varma, Centre Chairman; Dr U S Yadav, Past Centre Chairman; Er A K Yadav, EC Member also expressed their views on the occasion. Dr Rachna Asthana in her address, explained about important role of machines in development of society and how its usage make the society intelligent. Prof J Ramkumar expounded on various aspects of the theme topic and machines capability of doing multitasking as humans and understanding human speech. He spoke on automated cars, robots, which work as human and its help in various fields. About 23 members attended the event together from the Centre, AITH, including ISF students. Vote of thanks was proposed by Dr Pragya Agarwal, Centre Hony Secretary.

**KOZHIKODE**

- The Sub-Centre conducted a two-day workshop on ERPNext Software, jointly with Regional Science Centre & Planetarium (RSCP) and Earthians Software Services during 21st-22nd Sep 2019. Prof Pratap G Nair, Sub-Centre Chairman, delivered the welcome remarks. The Chief Guest Shri Manash Bagchi, Dir, RSCP Kozhikode, inaugurated the event. Shri CK Haridas, GC Member, congratulating Sub-Centre, commended on its bold step for creating a freelance consulting group to enter into nontraditional areas like enterprise software solution, selling and implementation for generating revenue for sustenance of the Sub-Centre. Sessions on features of the products and implementation methodologies of ERPNext Software were arranged.
Anchor Kutchhi Engineering College (sAKEC), Mumbai on 22nd Oct 2019, inaugurated the function of the sub-Centre at KMCT College of Engineering, Kozhikode on 2nd Nov 2019. Dr P Janardhanan, Past Chairman, IETE Kozhikode Sub-Centre delivering the theme talk, threw light on its several domains which included, current state-of-the-art applications in Artificial Intelligence and Machine Learning, methods for developing Artificial Intelligence and Machine Learning technologies in fields such as Network Security, Computer Vision, Speech Processing etc. Dr Sabiq PV, Vice-Chairman, presiding over the function also read out the President's message for the day. Shri Hemand EP, Hony Secretary, delivered the welcome address. Vote of thanks was proposed by Shri Swarad P, EC member. The session by Shri Jamsheer P, Earthians Information Technology and Services, Calicut, focused on open softwares information in the area of AI and ML. The programme was well received.

LUCKNOW

The Centre observed IETE’s 66th Foundation Day on the chosen theme “Role of Artificial Intelligence and Machine Learning in the Development of Society” on 2nd Nov 2019. The welcome address was given by Er Satish Kumar, Centre Chairman. President’s message taken out for the day was read out by Shri Nuzhat Hussain, Centre Vice-Chairman. A talk on the theme topic was delivered by Shri Himanshu Kativar, Assoc Prof /EE, Rajkiya Engineering College, Sonebhadra. Another speaker was Shri Saurabh Dixit, Centre Hony Treasurer, who enlightened the audience on the illustrious history of IETE. Dignitaries were felicitated by the Centre Chairman and the programme ended with a vote of thanks by Shri Saurabh Dixit.

MUMBAI

The Centre planned an IETE Innovation Meet-2019 at Shah & Anchor Kutichi Engineering College (SAKEC), Mumbai on 22nd Oct 2019, focusing on “Advances in Radio Frequency Measurements”. Prof (Dr) J W Bakal, President IETE and Prof (Dr) KTV Reddy, Immdt Past President IETE, attended the meet and were introduced by Prof Suvarna Bhise. The welcome address was delivered by Dr SS Thakur, Centre Chairman. Dr J W Bakal applauded the activities of IETE Mumbai Centre in his address. The keynote speaker Shri Jayant Potdar spoke on innovations in his address. ISF coordinators also attended the event. The address of Shri Kartik Parikh, CEO, Fastech Communications and Shri Anish Murthy, RF Design Engineer, Aniruts India Pvt Ltd, centered around the theme topic. Shri JN Nikahade, Dy Dir DTE and Shri NK Karnani, former Sr Scientist, BARC, inaugurated and adjudged the projects. Shri Parag Walinjkar, Centre Hony Secretary proposed vote of thanks at the end.

WORKSHOPE IN PROGRESS

- Chief Guest, Dr Ranjith C, Principal, KMCT College of Engineering, inaugurated the function of 66th IETE Foundation Day, arranged by the Sub-Centre at KMCT College of Engineering, Kozhikode on 2nd Nov 2019. Dr P Janardhan, Past Chairman, IETE Kozhikode Sub-Centre delivering the theme talk, threw light on its several domains which included, current state-of-the-art applications in Artificial Intelligence and Machine Learning, methods for developing Artificial Intelligence and Machine Learning technologies in fields such as Network Security, Computer Vision, Speech Processing etc. Dr Sabiq PV, Vice-Chairman, presiding over the function also read out the President’s message for the day. Shri Hemand EP, Hony Secretary, delivered the welcome address. Vote of thanks was proposed by Shri Swarad P, EC member. The session by Shri Jamsheer P, Earthians Information Technology and Services, Calicut, focused on open softwares information in the area of AI and ML. The programme was well received.

IETE Innovation Meet-2019 participants at IETE Mumbai Centre

- A technical lecture on 5G Mobile Communication was delivered by Dr SS Thakur, Centre Chairman at PVPP College of Engineering, Mumbai on 20th Sep 2019. Dignitaries present during the event were: Prof Suvarna Bhise, Convener; Shri Appasahab Desai, Gen Secretary, PVPP Trust; Chief Guest Dr Alam Shaikh, Principal, PVPPCoE and Shri Parag Walinjkar, Centre Hony Secretary. Prof Suvarna Bhise welcomed the gathering. Dr Shaikh advised & motivated students to take advantage of the opportunity by interacting with expert speakers, in his address. Vote of thanks was proposed by Shri Parag Walinjkar.

NAGPUR

The Centre celebrated 66th IETE Foundation Day on the selected theme “Role of Artificial Intelligence and Machine Learning in the Development of Society” under the chairmanship of Dr BP Joshi on 7th Nov 2019. The message from President IETE for the day was read out by Dr PD Khanda, Centre Hony Secretary. The keynote Speaker and Chief Guest, Shri Ajay Kumar, Director, Com 1 Communication Technologies Pvt Ltd, Nagpur, highlighted applications of AI and other features of AI, while talking about its usage in mimicking human behaviour. He stated that because of AI, machines can now learn and perform human tasks such as visual perception, speech recognition, decision-making, and translation between various languages. Prize distribution for online quiz competition was held on this occasion, in which Ms Parineeta Fating, Ramdeobaba College of Engg, Nagpur, bagged the 1st prize; Ms Priya Sharma, PIET, Nagpur, took away the 2nd prize. College toppers namely- Shri Pratik Wadkar, Govt Polytechnic, Arvi; Ms Sonia Somkuwar,
Govt Polytechnic, Nagpur and Shri Bhavesh Shahare, JD College of Engg, Nagpur were felicitated. Other toppings honoured were: Ms Achal Jemti, Cumnems College of Engg for Womans; Shri Himanshu Darvekar, Govt College of Engg, Nagpur; Shri Nandkishor Satpute, KDK College of Engg, Nagpur; Shri Vishal Likhitkar, KITS Ramtek; Ms Babli Sahu, PIET and Ms Bhumiya Bais, Ramdeoaba College of Engg, Nagpur. The programme was attended by number of people including executive body members, ISF coordinators, IETE members and students. Prof (Dr) DP Kothari (F-500367), Ex Director, IIT Delhi, Former Principal, VRCI, Nagpur and Ex VC, VIT Vellore, was felicitated as a senior member on the occasion. Dr S L Badjate, Dr Salim Chauhan, Dr (Mrs) Sunanda P Khandait, Dr V H Manikar and Prof Ajay Tinguria were few prominent members present during the event. Shri AR Sawatkar, Immdt Past Chairman, proposed vote of thanks.

PALAKKAD

- An extensive internship program for the engineering students of ISF at NSS College of Engineering Palakkad, was organized by the Centre during 23rd-26th Jul 2019. An industrial visit to Pyarelal Group of Industries, Kanjikode, was also arranged for them.
- The Centre commemorated the institution’s Foundation Day on 2nd Nov 2019 at NSS College of Engineering (NSSCE), Palakkad. The function was presided over by Dr V Devi, Centre Chairperson. Guests were welcomed by Centre Hony Secretary Shri Beji K Mathew, Dr T Sudha, Principal NSSCE & Sr FIETE was the Chief Guest. Background of the institution was presented by Shri CK Haridas, Founder Chairman. Later, a booklet, (in third part) titled, “Glimpses from History of Palakkad Centre”, was released by the Chief Guest Dr T Sudha.
- Addressing the gathering, she highlighted the advantages/disadvantages of Artificial Intelligence and Machine Learning. Prof N Leena in her keynote address delivered a brief account on use and utilization of Artificial Intelligence and Machine Learning in different fields. Prof C Pradip, Centre Past Chairman also addressed the audience. Shri B Suresh Kumar, Hony Treasurer proposed vote of thanks.

PUNE

- Shri Kishor R Shende, Centre Chairman, delivered the welcome remarks during the 66th IETE Foundation Day celebration organized by the Centre at Dept of E&TE, All India Shivaji Memorial Society (AISSM), Pune on 8th Nov 2019. On the occasion Prof (Dr) Prashant Patel, EC member, read out the President’s message. The Chief Guest Dr Pratap Sanap, Solution Architect, Persistent, Pune, chose to speak on the topic, “Artificial Intelligence in Healthcare and Automotive Industry”. Dr PB Mane (F-152202), Principal AISSM IOIT and the recipient of the Dr B R Batra Memorial Award (2018) was felicitated during the event. Other dignitaries present on the occasion included: Prof (Dr) Yogesh Angal, Vice-Chairman and Dr Mohini Sardey, Dr Wanare, Shri Bhoi and members of IETE Pune. Vote of thanks was proposed by Shri G K Dawara, Immdt Past Chairman, Pune Centre.

RAJKOT

- A talk on “Introduction to Vipassana” was arranged on 7th Jul 2019 by Shri Rajubbhai Mehta, Vipasana Acharya. Vipassana is a very ancient meditation technique of India, which help the users come out of their suffering and attain a high level of growth in all spheres of human activity. Shri SM Suchdey, EC member & Vipashyana Guru, outlined the advantages of Vipashyana and how it usefulness in our day to day life and informed that since all human actions emanate from the mind and a pure mind is by nature full of love and compassion, sympathetic joy and equanimity. Sustained practice of Vipassana brings about the total transformation of the human personality. About 52 members with family members attended and appreciated this valuable and informative session.
- A technical event - “Technoplanet – 2019” was organized by the School of Engineering R K University, School of Diploma studies R K University in association with IETE Rajkot Centre, ORACLE, CISCO, IEI, ISTE during 3rd-4th Oct 2019. It was inaugurated in presence of Shri Rushi Chauhan, AE, Town Planning Dept, Rajkot Municipal Corporation; Shri Kapil Gaglani, AE, Irrigation Dept. Govt of Gujarat; Shri Hitesh Savalia, Director, Aarohi Embedded System Pvt Ltd; Shri Annirudh Nagodara, MD, Version System, Rajkot; Shri Jatin Kataria, CEO, We Group, Rajkot; Shri Jaydeep Dodiya, Sr Engr, Impetus Prolific Pvt Ltd, Rajkot; Shri Denish Patel, Vice-President, R K University, Rajkot and Dr Nilesh Kalani, Dean, Faculty of Technology, R K Univ & FIETE. Shri Denish Patel delivered the welcome address. Vote of thanks, at the end was proposed by the Convener, Dr Chetankumar Patel.
Celebrating the 66th Foundation Day of the Institution on 2nd Nov 2019 at Mepco Schlenk Engineering College Campus (MSEC), Sivakasi, Dr G Indumathi, Centre Chairperson, read out the President’s message. Subsequently, Dr K Munneswaran delivered a lecture on the topic of the day, “Role of Artificial Intelligence and Machine Learning in the development of Society”. On the occasion, the Centre distributed awards to the best performing ISFs. The highest ISF membership award was bagged by ISF of Mepco Schlenk Engineering College, Sivakasi, recording the ISF membership of 173 and the 2nd highest ISF membership award was owned by ISF of MIET Engineering College, Trichy, with the ISF membership record of 119 for the year 2018-19.

SIVAKASI

The Centre organized the 1st Techno Blaze (2019-2020) on ‘Pixel Pair Matching Schemes for Data Hiding’ on 15th Jul 2019 conducted by Dr Shobhit K Patel, Assoc Prof/ECE, Marwadi Education Foundation Group of Institutions, delivered his talk on “Stealth Technologies for Reducing Radar Signature”, presenting radar signature reducing principles and technologies and discussed the ways of implementing stealthy characteristics. He also informed how stealth was a major requirement in all current-generation military vehicle designs and also a strong selling point for various aircrafts. Dr Sunil P Lavadiya, AP/Marwadi Education Foundation Group of Institutions, Rajkot, focused his presentation on “Latency in Optical Fiber and Methods to reduce it”. Er S M Suchday and Mohit Parbat, Centre EC members steered the function with the help of INSValsura officers. Vote of thanks was proposed by Lt Cdr Issan Chaturvedi, INS Valsura.

66th IETE Foundation Day was organized on 10th Nov 2019 by arranging a lecture on “Role of Artificial Intelligence and Machine Learning in the development of Society”, by Ms Sheetal Pandya, AP/CE, School of Engineering, R K Univ Rajkot. The speaker narrated the details of theme topic. Er HS Goswami, Ex Dy Director Doordarsan Kendra, Rajkot & IETE member, attended the function. Er CM Devani, IBS (Retd), Centre Founder Chairman, explained the history and activities of IETE in his address. Message of the President IETE for the day was read out by Er VK Kathiriya, Ex Assist Dir, Doordarsan Kendra Rajkot and member IETE. Programme ended with vote of thanks by Shri Paras Vadgama, Member, IETE.

The Centre organized the 2nd Techno Blaze on ‘Reversible Logic Circuits in Quantum Cellular Automata’ was organized on 18th Aug 2019 by Shri A Kamaraj, AP/ECE, Mepco Schlenk Engineering College. Dr G Indumathi, Centre Chairperson, Dr T Sabapathi, Centre Hony Secretary and Shri M Davidson Kamaladhas, Hony Treasurer, graced the event and addressed the gathering.

3rd Techno Blaze of the year 2019-2020 was arranged by the Centre on 22nd Oct 2019 at Mepco Schlenk Engineering College (MSEC), Sivakasi. The resource person, Shri M Davidson Kamaladhas, Assoc Prof/ECE, MSEC, delivered a technical lecture on “Recent Trends in Signal Processing”. The welcome address was by Dr T Sabapathi, Centre Hony Secretary and she also introduced the speaker, while Dr G Indumathi, Centre Chairperson, proposed vote of thanks concluding the programme.

SURAT SUB-CENTRE

The Sub-Centre organized a two-day workshop on Single Board Computer for Real-Time Applications on 5th-6th Sep 2019 in association with Dept EC, SCET-Surat. Dr Nehal Shah, Shri Pritesh Saxena, Shri Bhargav Shah and Shri Chintan Panchal were the Faculty Coordinators from E&C Dept of Sarvajankan College of Engg and Tech, Surat. Around 35 participants attended the workshop from departments of ECE, CE and IT. Faculty members from Veer Narmad South Gujarat University of Surat (VNSGU) also participated.

The Sub-Centre celebrated IETE Foundation Day on 23rd Nov 2019 in association with the ISF at SVNIT, Surat. Dr Maulin Joshi, Sub-Centre Chairman, read out the President’s message in the beginning. Later, an informative talk on the theme “Role of Artificial Intelligence and Machine Learning in the Development of Society” was presented by Dr Maulin Joshi to about 50 students, participating the programme. The event concluded with the National Anthem.

TIRUPATI

The Centre organized 66th IETE Foundation Day celebration on 2nd Nov 2019. Dr KJ Ramesh, Former DG, Meteorology, graced the event as the Chief Guest. Prof S Vijaya Bhaskara Rao, Member, Governing Council was the Guest of Honour on the occasion. Welcome address was presented by Dr TVC Sarma, Centre Chairman, while Prof N Padmaja, Centre Hony Treasurer, coordinated the programme. Later,
Dr T Rajendra Prasad, Centre Hony Secretary, read out the President’s message for the day. The keynote speaker, Dr KJ Ramesh delivered his talk on “Role of AI and ML in Disaster and Climate Risk Studies”. Vote of thanks was proposed by Prof S Jyothi, Dept of Computer Science, Sri Padmavathi Mahila Viswa Vidyalayam, Tirupati and Centre EC member.

VADODARA

- An Audio-Visual Technical Presentation on “Train Control Management System (TCMS)” was planned on 7th Sep 2019 by Shri Priyank Desai, Dept of Visualization within TCMS, M/s Bombardier Transportation, Vadodara. His presentation included different aspects of state-of-the-art TCMS using the latest embedded technology. TCMS is often referred to as the “brain of the train” due to its central role in coordinating control and monitoring across disparate systems. The presentation was attended by the senior members of the IETE namely- Prof R C Desai, Dr V K Shah, M/s ABB and Centre Chairman, faculty members from MSU, Ms Mamtta Padole, Shri Sunil Patel, Shri Naresh Kumar, BARC, Ex-principal, Polytechnic, Prof B P Dave, and entrepreneur Shri Dhaval Shah from M/s Omni Sense etc. In the beginning welcome remarks were presented by Shri Yashpal Goyal, Centre Hony Secretary and Ex DGM, ONGC, Vadodara. In the end vote of thanks was proposed by Shri Yashpal Goyal.

- The dignitaries present during the celebration of 66th IETE Foundation Day organized by the Centre on 2nd Nov 2019 included: Dr R C Desai, Wg Cdr S R Vasavada, Dr Vijay Shah, Centre Chairman, Shri Yashpal Goyal, Centre Hony Secy, Shri Tushar Kher, Centre Immdt Past Chairman, Shri Dhaval Shah, Ms Sorum Kotia, Prof Vijay Sane, Shri K P Gupta and Shri R P Gupta. Veteran IETE Member Wg Cdr S R Vasavada (F-006960) was felicitated by the founder Centre Chairman Dr R C Desai. The President’s message was read out by Shri Yashpal Goyal, followed by an audio visual presentation of Dr V K Shah on “Role of artificial Intelligence and machine learning in the development of Society”. A video was played presenting a lecture by Shri Sundar Pichai, CEO, Google on Artificial Intelligence and its uses in the Society. Finally, the vote of thanks was proposed by Shri Yashpal Goyal.

VIJAYAWADA

- The Centre celebrated IETE Foundation Day on “Role of Artificial Intelligence and Machine Learning” on 2nd Nov 2019. Er P Kalee Prasad, Centre Hony Secretary delivered a technical talk on the theme. Er B Surya Prasada Rao, Centre Hony Treasurer, was also present on the occasion.

YAVATMAL

- The Sub-Centre organized a quiz programme at the Jawaharlarl Darda Institute of Engineering and Technology (JDIET), Yavatmal, on 11th Sep 2019. About 74 students attended.

- The members and students of the Sub-Centre visited a mentally retarded residential School- Jivan Vikas Mandir at Yavatmal, on 16th Sep 2019. About 39 students visited the school.

IETE 66th Foundation Day together with Faculty Development Programme (FDP), was celebrated on “Disruptive Technology in Machine Learning and Artificial Intelligence” in association with IE (I), Kanyakumari Local Centre (KKLC) and Riyasaa Labs - Center for Innovation on 8th Sep 2019. Dr S Arumuga Perumal, Chairman IETE PAC-Nagercoil, delivered the opening remarks. Er G Sivasubramaniam, Past Chairman, IE(I) explained the programmes benefits briefly. Speakers present were- Prof (Dr) Srinivasan Kannan, Sree Chitra Thirunal Institute for Medical Sciences and Technology, Trivandrum and Sanjay Mathew, CEO & Co-Founder Code of duty Innovations Pvt Ltd, Trivandrum. The guests were honoured by the Chairman & Secretary. In the 1st session Dr Srinivasan Kannan delivered a very informational lecture on “Health Care in Machine Learning”. In the 2nd session Shri Sanjay Mathew delivered a talk on the “Role of Artificial Intelligence in the Medical Fields” coupled with Product demonstration. In the 3rd session Dr S Arumuga Perumal explained about IoT in an elaborate manner. Er V Arun, explained the Role of Machine learning and Artificial Intelligence to the Society. In the valedictory session, certificates were distributed to the participants by Er V Sivathanu Pillai, Chairman, IE (I), Dr S Arumuga Perumal, and Er S Bright Selvin. Vote of thanks was proposed by Er S Natarajan, Ex Superintending Engineer, PWD.

IETE PAC, IE(I) & Riyasaa Labs jointly celebrated IETE Foundation Day 2019
IETE Students’ Forum Activities

- **ISF at PSG College of Technology (PSGCT), Coimbatore**, conducted two quality events RABG (Race Automation Battle Grounds) and NEOLOGIC as a part of KRIYA 2K19 on Feb 23, 2019. The inter college technical symposium, RABG– one of the gold events of Kriya '19, was a line follower bot event that tested the design skills of the participants in two innovative rounds. With a healthy turnout, the event was a great success as the contestants competed with each other as they made their bots tackle the track with ease. Another event NEOLOGIC, was held next day tested the general and technical knowledge of the competitors.

- **ISF at Sambhram Institute of Technology (SIT), Bangalore**, organized an international conference on “Latest Advancements & Future Trends in Engineering, Science & Management” on May 4-5, 2019 in association with IETE Bengaluru Centre. Prof H S Bhatia, Chairman, IETE Bengaluru, was the Guest of Honour and Dr C V Ravishankar, HoD/E&C, coordinated the programme.

- A workshop on “Applications of Arduino” by Shri Dhananjay Mahajan, Shri Anand Kulkarni & Prof N I. Bhopale, was organized at **ISF at Sanjivani College of Engineering (SCE), Kopargaon, Maharashtra**, in association with IETE Nashik Sub-Centre on Jul 6, 2019. Another workshop was held on “Fundamentals of C Programming”, by Prof Nitin Bhopale and Prof Shailesh Kulkarni on Aug 23-24, 2019. ISF also organized an expert lecture by Capt Abhijit Kulkarni, Infantry, Indian Army on “Career and Opportunities for Engineers in Defense” on Sep 16, 2019.

- **ISF at Dept of ECE, Dhanalakshmi Srinivasa Engineering College (DSEC), Chennai**, held events like component display, mini project, technical quiz, connection and group discussions on Jul 13, 2019. About 150 members attended.

- **ISF at Dept of ECE, SRM Valliammai Engineering College (SRMVEC), Chennai**, organized a seminar on “Higher Studies and Opportunities after Graduation” in association with ISTE on Jul 18, 2019, wherein Shri Anbarasan A, AP/ECE, welcomed the gathering and introduced the Chief Guest Shri Satheesh Kumar, Business Head, IMS, Chennai. The guest was felicitated by Dr S Ramesh, Assoc Prof/ECE. Another workshop on “Networking Tools” was conducted by E&C Dept on Aug 6, 2019, by Shri S Aaja Alavudeen, Sr Project Engineer, Nest Lives Pvt Ltd. On Aug 18, 2019 once again the same lecture, i.e., “Higher Studies and Opportunities after Graduation” was organized by Shri Satheesh Kumar, Business Head, IMS, Chennai for another set of 75 members. Next, the ISF conducted a lecture on ‘Internet Privacy and Cyber Security Concerns’ by the chief guest & alumnus, Shri Karthik Raghupathy, System Engineer, Prothious Engg Services on Aug 27, 2019. Mrs Indu Nikhil, AP, Academic Coordinator, welcomed the gathering and introduced the speaker. Vote of thanks was proposed by Ms K Sobana, AP.

- **ISF at Dept of IT of Dharmsinh Desai University (DDU), Nadiad**, having an ISF, organized a one-day workshop on “NodeJS and Introduction to MongoDB” on Jul 20, 2019, which was conducted by Shri Kirtan Duddhatra, DDU Alumni and Shri Parth Shah, Sem-VII, IT student. About 59 students of IT Dept attended and gained practical knowledge on the utility of NodeJS and MongoDB. Topics earmarked for the workshop were: Introduction to NodeJS; Hands on using NodeJS; Chat Application; Rest API and Web Scrapping. Another two-day workshop was organized on “Salesforce” on Sep 21-22, 2019 with experts Shri Nimit Shah and Shri Swagat Talsania from Incapsulate, Ahmedabad.

- **ISF at JSPM’s Bhivrabai Sawant Polytechnic (BSP), Wagholi, Pune**, conducted a seminar on PLC on Jul 22, 2019. Shri Suhas Gadekar was the resource person. JSPM’s BSP expressed sincere thanks to the guest for the valuable technical session.

- **ISF at University of Engg and Mgmt (UEM), Jaipur**, organized a workshop on “Application of Machine Learning in Image and Video Processing” during Jul 22-26, 2019. Prof (Dr) Pratik Chattopadhyay, Dept of CS&E, IIT-BHU, was the mentor for the workshop. It was inaugurated on 22nd July 2019 in presence of Prof (Dr) Biswajey Charrettee, Vice-Chancellor/UEM; Prof (Dr) Aniruddh Mukherjee, Dean-Academics/UEM; Prof Sandip Das, HoD/E&CE/UEM; Prof Sayak Pramanik, HoD/Center of Advanced Studies/UEM and Prof Chiradeep Mukherjee, AP & ISF Co-ordinator. Prof (Dr) Manish Tiwari, Chairman; Prof (Dr) Ghanshyam Singh, Immdt Past Chairman, and Prof (Dr) Dinesh Yadav, Hony Secretary, from IETE Jaipur Centre, motivated the students for more such participations.

- **ISF at Dept of ECE, Gayatri Vidya Parishad College for Degree & PG Courses (A), Rushikonda, Visakhapatnam**, conducted activities, namely: a guest lecture by Shri M Bhagavan Prasad, Sub-Divisional Engineer, BSNL Visakhapatnam, on the Fundamentals and importance of Optical Fiber Communication and Wireless Communications on Jul 23, 2019 and a two-day workshop on “IoT using Arduino” at Dept of ECE on Aug 30-31 2019 with the help of Shri K Bapuji, CEO, Appleton Innovation, as the resource person.

- Another new session of **ISF was inaugurated at Dept of ECE, Sri Venkateswara College of Engineering (SVCE), Tiruppur**, by Dr S Muthukumar, HoD/ECE, SVCE on Jul 24, 2019. On this occasion a guest lecture on “Recent Application of Machine Learning” was arranged under the banner of IETE Chennai Centre, by Dr V Sathiesh Kumar, AP/ECE, MIT Chennai. About 66 members attended. The ISF organized another technical talk on “Wireless Communication – A Glimpse on its hyper growth in Telecom Industry” under IETE Chennai Centre on Jul 26, 2019, and the speaker was Shri A Sadagopan, FIETE, Ex-AGM, BSNL Chennai. About 150 members attended this talk. Another event “24 hours Make-A-Thon” was inaugurated by Shri Muthukumar, HoD/ECE, SVCE on Aug 9-10, 2019, wherein the welcome address was made by Ms T J Jayaprabha, AP/ECE, SVCE. Faculty coordinators- Ms D Menaka, Ms R Kousalya & Ms B Sarala, gave the overview of the hardware-based design event. Dr S Ganesh Vaidyanathan, Principal, SVCE & Dr S Muthukumar appreciated the efforts made. About 60 members attended. ISF organized another seminar on “How to present a technical paper” by Dr N Kumararatharan for the students of IETE and Robotics and Artificial Intelligence Club (RAIC) on Aug 30, 2019. Ms T J Jayaprabha and Ms D Menaka, SVCE-ISF incharges, organized many other events for SVCE students to explore their technical talents. A technical symposium on UPAGRAHA’19 was organized on Sep 26 2019 under the co-ordination of Ms T J Jayaprabha, Shri G Loganathan and Ms D Menaka. The dignitaries in the event included: Cdr L Ganesh, India Navy, Visakhapatnam and Shri BKS Gokul, Technical Lead, IT. Another technical talk on “SONAR theory and its applications” was given by Cdr L Ganesh and the programme also comprised activities like- Mini Project, Paper Presentation, Circuitrix, Code2Duo, Tech Jam, Arduino Quiz, Line Follower and Project Expo. In valedictory session, Shri BKS Gokul, delivered his lecture on “Network Telemetry and its Applications”. Students of the SVCE represented IETE-Chennai Centre and participated in the IETE Innovation Meet 2019 and Advances in
Radio Frequency Measurements at Shah & Anchor Kutchhi Engineering College, Mumbai on Oct 22, 2019. Students who won 1st prize in Project Competition were: Shri S Prem Raj and Shri S Lokesh, for their project on “Drones as First Response Vehicles” with Shri T J Jayaprabha, ISF Coordinator, AP/ECE/SVCE, as mentor. Dept of CS organized a one-day awareness program on AI & ML for social benefits on Nov 19, 2019, wherein Dr M H Kori, Former Tech Dir, Alcatel Lucent Technologies and Past Chairman Bangalore Centre, addressed the gathering.

**ISF at Dept of EEE, Vel Tech High Tech Dr Rangarajan Dr Sakunthala Engineering College, Chennai**, organized “Alumni Interaction” with Ms Abarna T (Batch: 2015-19), Technical Analyst, TCS, on Jul 24, 2019. Ms Abarna spoke on “Opportunities and Challenges in Software jobs” and was felicitated by Dr E Kamalanaban, Principal of the College. The dignitaries present during this meet mostly included the faculty members of the EEE Dept & HoD, namely -Shri Pradeep Katta, ISF coordinator; Dr J Prakash, HoD; Shri S Sri Krishna Kumar, Shri R Senthilkumar, Mr Mohammed Ovaiz A and Mrs R Suguna. On Aug 27, 2019, ISF organized a guest lecture on “Transforms and Partial Differential Equations” by Prof (Dr) B Krishna Kumar, Dept of Mathematics, College of Engg, Guindy, Anna Univ, Chennai. It was coordinated by Shri S Sri Krishna Kumar, AP/ECE and Shri R Senthilkumar, AP/ECE. Members present on the occasion were: Dr E Kamalanaban, Principal; Dr J Prakash, Head/ECE; Mr Mohammed Ovaiz A, Mrs R Suguna, Shri Pradeep Katta, “Alumni Interaction” with Shri Anand Raj M, Maintenance Engr, Johnson Lifs Pvt Ltd., was arranged on Sep 10, 2019. Dr E Kamalanaban and Dr J Prakash, were present with others namely- Shri S Sri Krishna Kumar, Shri R Senthilkumar, Mr Mohammed Ovaiz A and Mrs R Suguna. On Sep 19, 2019, ISF organized an Industrial Visit to TCP Ltd, Power Plant, Gummidipoondi, Chennai. Shri Pradeep Katta and Mrs R Suguna accompanied the students, and the event was coordinated by Shri R Senthilkumar. Dr E Kamalanaban, Principal and Dr J Prakash, Head/ECE also participated. The ISF took the students to the same power plant the next day with its full team.

**ISF at Dept of ET, Saraswati College of Engineering (SCOE), Khargar, Navi Mumbai**, organized a seminar on Jul 25, 2019 on “Application of Arduino and IoT”, by Shri Santosh Kamble, CEO of Saitronics Ltd. It was coordinated by Prof Nilesh B Patil, ISF Coordinator and guided by Prof Neha Mahajan, HoD and Dr Manjusha Deshmukh, Principal of the College. Vote of thanks was proposed by Krishna Nakkum, SCOE ISF President. On Sep 20, 2019, Dept ET, organized ‘Ideathon’ an event for TE/BE students under IITE. Winners declared were honoured by the Principal Dr Manjusha Deshmukh. On Sep 25, 2019 Dept of E&T organized ‘PCB workshop’ for II/III yr BE students, which was coordinated by Prof Pallavi Kharatand while guidance was offered by HoD Prof Neha Mahajan. Siddhesh Sawant and Krishna Nakkum handled the event.

**ISF at VT Patel Dept of E&C, Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat**, organized two events namely – “Tech-intellect” and “Project Presentation” in the academic year 2018-19. A workshop was also organized on “A report preparation using LaTEX” for II, III & IV year students and was conducted by Dr Hiren Mewada, faculty of CHARUSAT. Prof Himanshu Patel, faculty & ISF coordinator was present during the session.

A guest lecture was arranged on “Applications of Real Time Embedded Systems” by the ISF at Pandyan Saraswathi Yadav Engineering College (PSYEC), Sivaganaga, on Jul 26, 2019 by Shri M Shanmugam, Project Lead, Robert Bosch, Coimbatore and Shri Senthilkumar, Technical Lead, HCL, Madurai. Another guest lecture was on “Design & Analysis of Electronic Circuits”, delivered by Dr M Arivalagan, HoD/EEE, Nadar Saraswathi College of Engineering and Technology, Theni, on Aug 9, 2019.

The Dept of ECE, of Sahyadri College of Engg & Mgmt (SCEM), Mangaluru, having IITE Student Forum conducted a one-day workshop on “PCB: Design and Manufacture” on Jul 26, 2019 by Mrs Megha N, ISF co-ordinator & committee member.

**ISF at Dept of ECE, Vellalar College of Engg and Tech (VCET), Erode**, organised an inaugural function of Student Association and ISF on Jul 26, 2019, which was graced by Shri G Ramesh Kumar, Mgr, Industrial Automation, Siemens Ltd., Coimbatore as the Chief Guest. Ms H Nathiya delivered the welcome address. Prof (Dr) K Venkatchalam, HoD/ECE, introduced the new office bearers and the batches were distributed to the student members by the Principal Dr M Jayaraman and the Chief Guest. The association activities were proposed by ECE Dept Student Secretary Ms S Rajeswari. Presidential address was delivered by the Principal. Dean Academics Prof L Peter Stanley Bebington, delivered the inaugural address. Chief Guest spoke on “Digitalization Industry 4.0.” The programme concluded with vote of thanks from Ms V Sharmila Devi. The ISF organized IITE sponsored one-day national level research seminar on Aug 31, 2019, wherein an MoU between Bahir Dar University, Ethiopia and VCET, was made to organize a seminar on “Wireless and Optical Network Design” along with IEEE Photonics Society and IEEE EMBS chapter. Prof (Dr) SJ Thiruvengadam, HoD, Thiagarajar College of Engg, Madurai, graced the event as the Chief Guest. Prof (Dr) K Venkatchalam, Shri P Senthil Kumar, and Principal Dr M Jayaraman addressed the gathering. Others present on the occasion include: Dr P Ravi Kumar, Assoc Prof/BME VCET; Dr S Malathi Head/ Photonic Research Centre & Assoc Prof/ECE; Shri M S Ramaiah, Univ of Applied Sciences, Bengaluru; Dr A Pusharagavan, Faculty ECE/Bahir Dar University, Ethiopia. The inaugural address was delivered by Prof L Peter Stanley Bebington, Dean/Academics and Prof D Jayachandar, Dean/ Student affairs. 1st Session saw Dr SJ Thiruvengadam’s talk on “5G Millimeter Wave Massive MIMO” in the 2nd Session, Dr P Ravi Kumar delivered a lecture on “Photonic Biosensors”. During the 3rd Session, Dr S Malathi delivered a lecture on “Switching Technologies for Elastic Optical Networks”, while the final session included a technical talk by Dr A Pusharagavan on “Optical Network System Design”. Vote of thanks was proposed by Ms V Sharmila Devi.

**ISF at Keshav Memorial Institute of Technology, Narayanaguda, Hyderabad**, conducted an in-house poster presentation competition for the B Tech students on Jul 27, 2019.

A three-day Faculty Development Program (FDP) on “Cloud based Machine Learning for IoT Applications” was organized by ISF at Kongu College of Engineering (KCE), Erode, during Aug 1-3, 2019. Shri P Suresh from Palakkad Centre conducted the programme.

A new ISF at New Horizon College of Engineering (NHCE), Bangalore, was inaugurated by Prof H S Bhatia, Chairman, IITE Bangalore on Aug 4, 2019. Prof C Murali, Guest of Honour, delivered a technical talk on “Latest Trends on 5G” on the occasion. Dr Sanjeev Sharma, HoD/NHCE, proposed vote of thanks.

**ISF at LD College of Engineering (LDCE), Ahmedabad**, organized an orientation event for 1st year students on Aug 5, 2019 along with a fun treasure hunt activity. Students were given prior information about the events being organized by the ISF.

**ISF at Dept of ECE, SRM Institute of Science and Technology (SRMIST), Vadapalani Campus, Chennai**, organized a one-day seminar on “Computer Networks and Cyber Security” on Aug 5, 2019 by Shri Bolem Srinivas, Scientist/NIOT. About 120 members attended. The
The theme chosen for the 2nd IETE International Conference India – AI & ML Driving 5G & Beyond is a fully operative and efficient 5G network, which cannot be completed without the inclusion of Artificial Intelligence (AI) routines. Existing networks with all-IP (Internet Protocol) broadband connectivity are based on a reactive conception, leading to poor efficiency of the spectrum. Artificial Intelligence and its sub-categories like Machine Learning and Deep Learning have been evolving as a discipline, to the point that nowadays this mechanism allows fifth-generation (5G) wireless networks to be predictive and proactive, which is essential in making the 5G vision conceivable.

This conference creates a platform for experts in these domains to come together and exchange their research and developments. It also provides opportunities for industries and startups to exhibit and announce their new and innovative products, ideas and concepts at this conference. Leading renowned experts will be participating in the conference sharing their expertise in their domains in the pre-conference Tutorials and also in the Keynote/Invited Talks. And this Conference is intended to report high-quality research on 5G with emphasis on the critical role of Artificial Intelligence and Machine Learning and efficient design of 5G.

IETE INTERNATIONAL CONFERENCE INDIA-20
on
AI & ML DRIVING 5G & BEYOND
APR 30 - MAY 2, 2020, BENGALURU, INDIA
Venue: J N Tata Auditorium (IISc), Bengaluru, India

iici-20 invites high quality, state-of-the-art, unpublished, original research papers from academicians from both Govt & private, practicing managers, manufacturers & research scholars working in domain of wireless communications, AI & ML. They are requested to submit their contributions in these broad areas for presentation in iici-20. Potential topics to be addressed in this conference include, but are not limited to the following:

Some suggested topics:
All aspects of 5G, particularly related to: 5G Network, NR, Massive MIMO, Beam Forming, mm Wave, Waveforms, Numerology, eMBB, mMTC, uRLC, NB-IoT, Edge & Fog Computing, AI, ML, Deep Learning, Network Slicing/SDN/Networt Virtualization etc. All accepted papers will be published in the Conference Proceedings and selected papers will be published in peer reviewed journal.

Important dates:
• Last date for Receipt of Papers : 15 Mar 2020
• Notification of Paper Acceptance : 31 Mar 2020
• Receipt of Accepted Full Papers : 15 Apr 2020
• Last date for Registration (with concessions) : 15 Apr 2020
• Conference : 30 Apr – 2 May 2020.

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IETE Building, Bellary Road, Ganganagar Extn, Bengaluru-560 032, Karnataka, India Ph. : 080-2333 1133 Email: bangalore@iete.org
http://ietebangalore.org, //iici20/iici20.html
ISF also held a workshop on “Abhiyam-2019: Mobile Control Robot” on Aug 8, 2019 with 125 members in attendance. Another Technical Symposium was organized on Aug 22-23, 2019 with about 100 members.

- A technical talk on Artificial Intelligence (AI) was conducted by ISF at Bangalore Institute of Technology (BITE), Bangalore, on Aug 11, 2019, delivered by Ms Ashika Naidu, CAIR, DRDO, Bangalore.

- ISF at Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, organized a series of talks on “High Level Oscilloscopes” on Aug 11, 2019. All the resources were from their department itself. An orientation programme for I & II year students of all circuit branches was conducted on Aug 31, 2019, wherein students were informed about IETE & its activities conducted under the banner of ISF, thus making them aware about ISF membership. A quiz competition was organized in two rounds. About 35 students of UG & PG got benefitted. Experts from Optimized Solutions (Tektronix) visited the ISF to deliver lectures.

- A new ISF at Dept of E&TE, JSPM’s Jayawantrao Sawant Polytechnic (JSP), Hadapsar, Pune, was inaugurated with founder student members on Aug 13, 2019. Shri SK Khedarik, IETE Governing Council member was the Chief Guest. Other dignitaries present were: Shri Kishore Shende, Chairman, IETE Pune Centre and Shri Yogesh Angal, Vice-Chairman, IETE Pune Centre. Prof Kularkar M M and Prof Taralkar M A, HoDs/E&K, addressed the students. Prof AS Velapure and Prof VS Ture, Convener, introduced the guests. Technical talks on recent trends in electronics and telecommunication was delivered by the Shri Kishore Shende, while information on career opportunities & higher studies was given by Shri Yogesh Angal.

- ISF at Dept of ECE, Dr MGR Educational and Research Institute (DMGRERI), Chennai, organized a one-day workshop “PCB Assembling and Circuit Designing” on Aug 16, 2019 by Mrs Preethi Selvakumar, Pulse Control Systems, Chennai. About 75 members attended.

- ISF at ELEX Dept, Thakur College of Engineering and Technology (TCET) Mumbai, organised a Quiz Competition on Aug 16, 2019 under the guidance of Dr Sandhya Sawe. Members attended include Mrs Archana B, Faculty-in-Charge/TCET, Shri Sumil K and Shri Sumit K, faculty IETE TCET. Winners were felicitated by Mrs Archana B. ISF conducted a seminar on “IoT Project Planning and Implementation” on Sep 17, 2019 under the guidance of Dr Sandhya Save. Present one the occasion were - Mrs Archana B, Faculty-in-Charge IETE; Shri Sumil K & Shri Sumit K, Faculty IETE TCET and Mrs Leena Chakraborty- AP/TCET. Shri Maruti Muthu, a distinguished alumnus of TCET, was the keynote speaker.

- ISF at Dept of ECE, Agni College of Technology (ACT), Chennai, conducted a quiz competition by the name Tech Intell for II year ECE students on Aug 17, 2019. Objective was to promote a healthy debate atmosphere among the students. Six teams participated in the competition. Dr C V Jayakumar, Principal and Dr R Anitha, HoD/ECE appreciated the efforts.

- ISF at Dept of ECE, BVRIT, College of Engg for Women, Hyderabad, organized a guest lecture by Shri Siva Subrahmanyam, M/s Cognizant on “Machine Learning” for II year/ECE students on Aug 17, 2019. The speaker gave an insight on the basics of Machine Learning. The ISF also celebrated “Engineers’ Day” on Sep 18, 2018 by arranging a quiz competition ‘Prashnothari-VII’ for students of I & II years (interdisciplinary). It was organized by Mrs S Madhavi and Mrs P Prashanti.

- A seminar on Sustainable Technologies was arranged for ECE-IETE members of ISF at Sri Ramakrishna Institute of Technology (SRIT), Coimbatore on Aug 21, 2019. The welcome address was delivered by Dr S Anila, Prof/ECE. Dr A N Jayanthi, ISF coordinator, introduced the Chief Guest- Ms Sudha Sankari C B, Research Assoc, Education R&D, IC Centre for Governance, Gananpathy, Coimbatore. The guest in her address clearly pointed out the difference between clean technologies, green technologies, renewable technologies and sustainable technologies. Vote of thanks was proposed by Shri Thangavel N, ISF Jt Secretary. ECE Dept of the ISF conducted a “Project Expo” on Sept 25, 2019, coordinated by Dr AN Jayanthi, and Ms AK Kavitha. Student Coordinators: Shri Karthikeyam M, Secretary/ISF, Shri Thangavel, Jt Secretary and Shri Seenu Vikash, Exec Member/ISF also participated. Judges included: Ms L Malathi, AP/ECE; Ms R Lavanya, AP/ECE and Shri S Munaf, AP/ECE.

- ISF at Ramco Institute of Technology (RIT), Rajapalayam, organized a technical event – “MUX” for II & III year students on Aug 20, 2019, conducted by Ms A Adishree Trineta and Ms G Nandhini Devi of III Year ECE. On Aug 27, 2019, a “Techno Quiz” for II & III year students was conducted by Shri G M Vairamuthu and Shri S V Sumanth of III year ECE. Another one-day workshop was organized on “Sensors for Future Intelligence” during Techyuga- 2019, a state level technical symposium on Aug 31, 2019. Sessions were moderated by Shri K Sankar, Dr, M/s Mathimigal Tech (P) Ltd. Bangalore.

- ISF at Jawaharlal Darda Institute of Technology and Engineering, Yavatmal, conducted an expert lecture on the topic “Computer Vision and AI” in association with IETE Yavatmal Sub-Centre on Aug 30, 2019. It was delivered by Dr M R Parate, AP/IIT, Nagpur. The ISF celebrated “Engineers’ Day” in association with IETE Yavatmal Sub-Centre on Sep 16, 2019 with 39 students in attendance.

- ISF of Mepco Schlenk Engineering College, Sivakasi, conducted a workshop on “PCB Design and its Fabrication” during Aug 26, 29 & Sep 9, 2019. The resource person, Shri K Gopala Krishnan, AP (Sr)/ECE, delivered a lecture on the Basics of PCB Design and its fabrication, and guided the students to work on PCB wizard in labs. The ISF also organized a guest lecture by Shri B Santhosh Kumar, Consultant of Network and Security, HCL Technologies, Madurai, on “Enterprise Network and Security Overview” on Sep 28, 2019 for the III year ECE students.

- The ISF at Dept of ECE, Lakireddy Bali Reddy College of Engineering (LBRCBE), Mylvaram, organized a guest lecture by Shri P Raju, Sr Sub-Div Engr, BSNL, Vijayawada, on “Advances in Telecom Technology” on Aug 27, 2019. Session started with an overview of 2G and 3G technologies but with more emphasis on 4G technologies. The speaker informed about the various systems that supported 4G application such as antennas used in wireless high speed systems, routing and switching schemes, LTE and VoLTE systems and fiber back hauls in land & sea.

- ISF at Dept of ECE, Galgotias College of Engineering and Technology (GCGT), Greater Noida, organized a workshop on “VLSI Awareness and Opportunities in Industry” on Aug 28, 2019 by Shri Sandeep Gupta, Dir/GCGT, Shri Deepak Kumar & Shri Abhishek Kumar, Design and Verification Engineer, 3ST Technologies, Noida. Shri Sandeep Gupta started his session explaining the need for VLSI domain. Session was useful for generating awareness on technology and its utility. Shri Abhishek Kumar chose to speak on Basics of Verilog and later explained with writing a simple hardware program in Verilog. Shri Deepak Kumar gave a live demonstration of FPGA project on FPGA kit. Shri Sandeep
Gupta also discussed about career opportunities in VLSI Design as Design & Verification Engineer. The ISF conducted another workshop on “Machine Learning” on Sep 3, 2019 by Shri Rahul Pathak, Artificial Intelligence, Machine Learning and Python Expert, Cetpa Infotech Pvt Ltd Noida. ISF also conducted a seminar on a very important topic of “Preparation Strategies & Cracking exams like ESE, GATE, PSUs and Civil Service Exam” on Sep 11, 2019. The speaker was Shri Arun Singh, a motivational speaker from Made Easy, Noida. ISF conducted another seminar on almost same topic “Preparation Strategy & Career in Civil Service Exam” on Sep 18, 2019, which was addressed by Ms Ilma Afroz, IPS and Shri Alok Kumar, IAS Coach & Trainer, GS Score.

- **ISF** at Dept of E&T, S B Patil College of Engineering (SBPCOCE), Indapur, Pune, organized a one-day Industry Visit to Carver Aviation, Baramati Dist, Pune, on Aug 31, 2019 arranged for staff members. Eminent persons who accompanied were- Prof P S Togrikar, Prof M M Zade, Shri Sanjay Pawar, E&T Dept along with about 31 students. It was organized with the prior permission and under guidance of Dr P D Nemade, Principal, SBPCOCE, Prof Y S Bahendwar, HoD. Prof P S Togrikar was instrumental in planning and arranging the visit. Academy of Carver Aviation Pvt Ltd. (ACAPL), established on 19th Aug 1995, is one of the most esteemed flying schools in India, where thousand of aspirants have built up their careers. The Academy provides training in the field of Aircraft Maintenance Engineering (AME) and has received ISO 9001-2008 certification and is DGCA (Director General of Civil Aviation, Govt of India) approved institute. Shri Dhruva Bhatia coordinated for this visit along with Pilot Shri Aditya Kadam, Technical & Maintenance in-Charge and Shri Sharad Pawar, Mechanical Dept. Air Traffic Control Section. Another three-day Industry visit was organized to HAL Heritage Centre and Aerospace Museum Bangalore; JVS Electronics Pvt Ltd, Mysore and Visvesvaraya Industrial and Technological Museum, Bangalore, during Sep 23-25, 2019. Staff members along with 34 students visited these sites.

- **ISF** at Mauli College of Engg & Tech (MCOET), Shegaon, under IETE Amravati Centre, organized a “Poster Presentation Competition” on Sep 4, 2019, which was inaugurated by Dr CM Jadhao, Principal of the College and EC Member IETE Amravati Centre. Dr M A Beg, Head, Electronics and Power/MCET & FIETE with HoDs, namely-Dr PV Durge, Dr Smita Tarale and Prof SS Mhaske. Dr CM Jadhao, addressed the gathering. Prof NB Bhavarkar, ISF Coordinator & ISF Managing Committee, made the efforts in organizing the workshop.

- **ISF** at Anand International College of Engineering (AICE), Jaipur, organized a launching ceremony of IETE ISF and a seminar on “Benefits of the Students of ISF” on Sep 7, 2019. Prof Manish Tiwary, Chairman, IETE Jaipur Centre, graced the occasion as Chief Guest. Prof Ghanshyam Singh, Immdnt Past Chairman and Dr Dinesh Yadav, Hony Secretary, IETE Jaipur Centre, the Guests of Honour, also addressed the gathering. Ms Monika Mittal, Vice-Chairperson, IETE Jaipur Centre, applaud the conducted the activity in her address. Shri Vivek Bhojak, HoD/ECE, conducted the program.

The “E-Ganesha Project Competition” arranged by E&T Dept. of ISF KK Wagh Institute of Engineering Education & Research (KKWIEER), Nashik, in collaboration with IETE was held on Sep 12, 2019. It was inaugurated by Dr DM Chandwadkar, HoD/E&T and adjudged by Ms Gayatri Shirole, Emerson Technologies, Nashik, who is also an alumna. Winners of the contest were: Aditya Bhavar, Mandal Bangar and Adarsh Mali on 1st position for their project “Robotic Arm for Aarti, Ganesh Darshan count” and bagged the cash prize of Rs 2500/-; Shubham Wagh, Mayur Chavan, Shubham Sonawane, Yash Shewale at 2nd position for their project on “Smart Prasad distribution” and won Rs. 2000/-.

- **ISF** of Dept of ECE, VKR, VNB & AGK College of Engineering, Gudivada, Krishna Dist (AP), conducted a two-day workshop on “Internet of Things (IoT)” during Sep 12-13, 2019 by Hual Innovation, Hyderabad. Dr SHV Prasada Rao, HoD/ECE & ISF Coordinator and Mr Abdul Azeem, AP/ ECE, were present during the event. ISF celebrated “7th ISF Annual Day” on Sep 14, 2019 by arranging few technical events, viz, paper presentation, technical quiz and circuit designing. Dr SHV Prasada Rao, HoD/ECE & ISF Coordinator and Mr Abdul Azeem, AP/ ECE, were present during the event.

- **ISF** at Dept of ECE, Mohamed Sathak A J College of Engineering (MSAJCE), Siruseri, Chennai, arranged another for a technical symposium “Electro Fest – 4.0” on Sep 13, 2019 with about 75 members in attendance.

- **ISF** at Dept of ECE, Anil Neerukonda Institute of Technology and Sciences (ANITS), Visakhapatnam, organized a guest lecture of Dr Rajkumar Goswami, Indian Navy HQ, Eastern Naval Command, Visakhapatnam, on Sep 14, 2019. This was in association with ACES for the benefit of UG students on the topic “Communication Systems with emphasis on contemporary technology and realization through MATLAB”. Dr Rajkumar was felicitated by HoD, Prof V Rajya Lakshmi and Prof G Mannadha Rao after the lecture. ISF organized another lecture in association with ACES on “Electronics in Industry” on Oct 11, 2019 by an industry expert, Shri U Srinivasa Rao, Project Manager-New Product Development, EATON Power Quality Pvt. Ltd, Pondicherry.

A “Trekkking Event” was conducted on Nov 24, 2019 in collaboration with “Vizag Trekking Association (VTA)”. Total 125 students and 6 faculty members attended. Shri K Tripura Sundara Rao, President VTA, instructed the participants on various safety measures, advantages of trekking and explained the importance of such activities in our daily life. He explained the need for individual’s contribution towards environment and its preservation. A cleaning activity was also carried out in the view of keeping the trekking route plastic free. He appreciated students of ECE for their interest towards physical fitness and nature. To encourage students towards such events, students were given certificates for their active involvement towards environment and clean & green India.

- **ISF** at Dept of Elect Engg, Madhav Institute of Technology & Science (MITS), Gwalior, held a workshop on “Obstacle Avoider Robot” during Sep 14-15, 2019 by Shri Shubham Aggarwal and Shri Ashish Kumar. Eminent persons were: Dr Vandana Vikas Thakre, Dr PK Singhal, Prof Ranveer Tyagi and Prof Santosh Sharma. On World Standards’ Day ISF organized an expert talk on “Recent Developments and Standards in Wireless Communication” on Oct 14, 2019 by Prof KV Arya from IIITM Gwalior.

On the eve of Engineer’s Day celebrations, ISF at Dept of ECE, Dhanekula Institute of Engg & Technology (DIET), Vijayawada, organized a Technical Quiz and a Circuit Hunt at ECE Seminar Hall and EDC Lab, remembering Bharat Ratna, Mokshagundam Visvesvaraya on Sep 16, 2019. Dr Ravi Kadiyala, Head of the Institute and Dr G L Madhumathi, HoD, inaugurated the session.

- **ISF** at Dept of ECE of Gandhi Institute for Technology for (GIFT), Bhubaneswar, organized an IETE seminar on “Recent Trends in Telecommunication and Paper Presentation” on Sep 17, 2019 in association with IETE Bhubaneswar Centre. It was inaugurated by the Chief Guest Shri Satyananda Naik, Chairman IETE Bhubaneswar Centre. Prof (Dr) R N Satapathy, Hony Secretary of the Centre and Sri Sarat Kumar Brahma, ISF Coordinator, were both present on the occasion.
Dr S Krishna Mohan Rao, Principal, GIFT, presided over the inaugural session. Prof (Dr) R N Satapathy, the keynote speaker delivered his address on the theme topic. Shri S K Brahma, Guest of Honour, presented a brief talk on IETE establishment & its functioning.

- A technical visit to CEERI was organized by the ISF coordinator, Shri Rohit of ISF BK Birla Institute of Engineering and Technology (BKBBIET), Pilani and Shri Divyaprasaksh, from Birla Technical Training Institute (BTTI), Pilani, under the guidance of Dr Krishna Meel, Faculty coordinator, ISF-BKBIET on Sep 17, 2019. Dr Ajay Agarwal, Hony Secretary, IETE Pilani Centre, delivered the welcome address. Dr Rahul Prajesh, Sr Scientist, interacted and explained the fundamentals of semiconductor device and its fabrication to budding engineers.

- ISF at Gokaraju Rangaraju Institute of Engg and Tech (GRIET), Hyderabad, organized a workshop on “Designing of Apps using MIT App Inventor” as a part of its technical events on Sep 18, 2019. It was coordinated by Ms Uma Susheela, ISF Coordinator & faculty ECE Dept. ISF conducted “Python Programming” event on Sep 19, 2019, coordinated by Ms Uma Susheela once again. The ISF arranged another workshop on “IoT with LoRa and Google Firebase” on Sep 20, 2019, with an aim to teach students about various ways to work with IoT devices connected with Lora and Google firebase. Event was coordinated by the ISF Coordinator, Ms Uma Susheela, also the faculty of ECE Dept.

- ISF at JSPM’s, Bhivraibai Sawant Polytechnic (BSP), Wagholi, Pune, organized an IETE Poster Painting Competition on “Mission Mangal” on Sep 19, 2019 in association with IETE Pune Centre at BSP building. Members present were: Dr Sachin Admane, Dir/Principal; Prof Vaishali Sonone, ISF Coordinator /HoD/E&TC; Prof Angal, IETE Vice-Chairman /HoD/E&TC (BSIOTR). Judges selected for the event were – Prof Angal and Prof Dubal. The winners for the first three positions were: Balaji Shinde & Pratik Sadar; Pritesh Chokhar & Kiran Mali and Nayen Pawar, respectively for first three positions. Vote of thanks was proposed by Prof Sonone.

- ISF at KCG College of Technology (KCGCT), Chennai, participated in the “The Planet’s largest coastal cleanup drive”, organized by an organization named- Save a Turtle in association with Govt. of Tamil Nadu. It was planned to clean the beach from Marina to Kovalam on Sep 21, 2019. It was coordinated by ISF Faculty Coordinator, Dr Jose Anand, Assoc Prof/ECE. ISF also participated in the Mega Seed Ball Festival 2.0, an event to make 10 lakh seed balls, organized by Live Events at DG Vaishnav College, Chennai on Sep 22, 2019. ISF also organised Micro Forest Plantation on Sep 24, 2019, wherein 1500 tree saplings were planted at the college campus using the Akira Miyawaki method to create a micro forest within an area of 2500 square feet. ISF placed 600 seed balls along the side of Buckingham Canal towards the KCG College Road on Sep 25, 2019. Dean Academics, Dr Sarukasi, and Dr Jose Anand, Faculty Coordinator, were present during the occasion.

- An Innovator’s talk on “Introduction to Firebird-V Robotics Research Platform” was organized at Dept of ECE of ISF Acropolis Institute of Technology & Research (AITR), Indore (MP) on Sep 27, 2019, by the ISF Coordinator Ms Mukti Awad. Shri Prabhat Pandey, the keynote speaker started with introduction of Robotics and described major components of Robots. Later, he introduced “Firebird Platform” and its different types. He also explained different configuration of FireBird Robots. A “Project Exhibition” for BTech II Year/ECE students was organized on Oct 17, 2019. On the same day Shri Tapan Mukherjee, Dir, Techforce Composite Pvt Ltd, the keynote speaker, spoke on ‘Sensors’. He gave detailed description of various sensors with their characteristics and applications. He also differentiated between sensors and transducers.

- ISF at Vidyavardhini’s College of Engg and Tech (VCET), Vasai, organized a two-day workshop on “Basics of Drone Making” in association with IETE Mumbai Centre and its technical partner M/s Edunace on Sep 28-29, 2019. It was inaugurated by Dr Harish Vankudre, Principal/VCET. Certificates were distributed by Dr Vikas Gupta, Dean & HoD EXTC, VCET. Vote of thanks was proposed by Prof Shaista Khanam, ISF coordinator, VCET.

- A new ISF at Christ College of Engineering, Irinjalakuda (CCEI), Irinjalakuda, Trichur, was inaugurated by Dr R Gopikakumari, Chairperson IETE Kochi Centre, on Oct 10, 2019. Fr John Paliakara, Executive Dir, CCEI, presided over the function. Dr K Vasudevan and Dr M V Rajesh, Vice Chairman of IETE Kochi Centre were the speakers on the occasion. Dr Sajeek John, Principal, CCEI, commended the conduct of the programme. Persons addressing the gathering include: Dr VD John, Vice Principal; Shri Rajiv T R, HoD/EC; Prof R Sahadevan, Corp Relation Mgr; Shri Tony C Thomas, ISF Staff Coordinator and Ms Mary Christina Joy, ISF Chairperson. An expert lecture on Space Technology was arranged jointly by the EC Dept & Physics Dept, of Christ College of Engineering, in association with IETE Kochi Centre and Society for Space Education, Research and Development (SSERD). Shri Gabe Gabrielle, Member of Solar Systems Ambassador’s Project, Kennedy Space Centre, NASA and former Director of Engineering, Special Operations Command, US Air Force, delivered the talk. The talk drew keen attention from the audience comprising space enthusiasts and students from neighboring eight colleges. Shri Gabe encouraged and urged students to aspire for their dreams. Dr K Vasudevan, Emeritus Professor, CUSAT, chaired the session and delivered the introductory lecture. Eminent persons from IETE Kochi Centre, SSERD and CCEI were present. ‘Pragyan’, a science and technology expo was also organised by the students, demonstrating various principles of science in an attractive manner. It was aimed to evoke quest for science among the participants. As part of observing the Space Week a ‘Space Quick-Quiz’ was also arranged for all classes of the College.

- A new ISF at Dr T Thimmaiah Institute of Technology (DRTITT), Kolar Gold Fields, Karnataka, was inaugurated by Shri C Satyanandan, Hony Secretary as the Chief Guest on Oct 14, 2019. Explaining ISF benefits, he motivated students to become ISF members and gave details of the activities of IETE Bangalore. He invited all students and Faculty members to attend programs conducted by the Bangalore Centre. Prof C Murali, Guest of Honour and past GC Member, delivered a technical talk on IoT and 5G. Dr Ariff, Principal, Dr Rukmani Divakaran, Dean of Administration and Dr Palaniswamy, HoD/ECE also participated.

- A new ISF was inaugurated at SECAB Institute of Engineering and Technology, Vijayapur, Karnataka, on Oct 19, 2019 by Prof (Dr) Vadthiya Narendrar, ECE Dept, National Institute of Technology, Warangal. Other eminent personalities present on the occasion were -Dr S J Arwikar, Principal; Prof (Dr) Noorullah Shariff, HOD/ECE; Prof (Dr) Abbas Ali, HOD/ME. Staff and students members of Dept of ECE were also present.

- Prof C Murali, former Governing Council Member, delivered a technical talk on “Wireless Generations” at ISF of RNS Institute of Technology (RNSIT), Bengaluru on Nov 4, 2019.

- ISF at Dept of EC, Narula Institute of Technology (NIT), Sodhpur (WB), organised a seminar on “Hazards of EM Wave” for ECE of I, II, III & IV year students in association with IETE Kolkata Centre on Nov 8, 2019. It was delivered by Prof (Dr) M Mitra, ECE/IIEST Shibpur. The speaker outlined the hazards of EM Waves and its effects on human life. The overall session was informative and useful. Prof (Dr) S Panda spoke on the departmental activities. Shri P S Biswas, Chairman IETE Kolkata
Centre gave an introduction about the IETE Kolkata Centre. Prof (Dr) S K Sanyal explained the importance of professional bodies like IETE and seminar on engineering education. Vote of thanks was proposed by Mrs Sangita Roy.

- ISF at College of Engineering, Pathanapuram, Thiruvananthapuram, organized a one-day hands on workshop “Bluetooth Speakers” on Nov 13, 2019 from Shri Akhil C, Sem-7/EEE. Shri Amal R Jayakumar, Sem-7/EEE and Shri Vidhun Vikraman, Sem-7/ECE coordinated.

- ISF at Aditya College of Engineering and Technology (ACET), East Godavari, (AP) conducted a one-day seminar on “Electro Magnetic” on Nov 23, 2019, organized by Dr Jagadeesh Babu.

- Dept of ECE, ISF at Admas University, Barasat, WB, organized an expert lecture on Introduction to Dielectric Resonator Antennas (DRA) on Nov 27, 2019 in association with IETE Kolkata Centre. Lecture was delivered by Dr Koushik Dutta, IEEE Senior member and Student Activity Chair, IEEE Kolkata Section. Dr Dutta enlightened the students and faculty members with fundamentals and advanced concepts of high frequency engineering specifically DRA antennas. The audience appreciated his presentation. There was an open interaction between guest speaker and faculty/student members.

### OBITUARY

It is with profound grief that we report passing away of our distinguished IETE members in this quarter. We extend our deepest condolences and sympathies to their families.

**Prof B S Sonde (DF-003608)** the Distinguished Fellow and Past President of IETE passed away on Nov 09, 2019 at his residence at Bangalore. Prof Sonde has been the guiding light for our Institution. He was the well wisher for all those institutions with whom he was actively involved. Prof Sonde had been closely connected with the development of higher education, particularly electronics & communication engineering education and research in India. His publications, research work and achievement are testimony to the far-reaching contribution that one man’s towering intellect, persistence and scientific vision could make to the fraternity. His books served as foundation for many courses in Electronics across the country, setting a standard for the curriculum of many universities. He contributed to the management and administration of higher education by writing, guiding, and reviewing the statutes, regulations and other policies of many universities.

Prof Sonde was the Member of the Faculty of the Indian Institute of Science (IISc), Bangalore from 1964 to 1997 and occupied various positions including Professor of ECE, Chairman of the Division of Electrical Sciences, Dean-Faculty of Engineering etc. He was the Vice Chancellor of Goa University from 1997 to 2002. He headed many prestigious organizations of the country such as the Electronics Commission, Govt. of India; Engineering Panel of the UGC; DOE Working Group on Consumer Electronics; ISHM (India); NBA and All India Board of UG Studies in E&T both under AICTE. Apart from establishing the Centre for Electronic Design and Technology (CEDT) at IISc-Bangalore, Prof Sonde was involved with various other path-breaking initiatives – not just in India, but also in universities and institutions around the world. Prof Sonde was the Visiting Professor at many Institutes/Universities, had been serving on Advisory/Review/Governing Bodies at many academic/research institutions and was also engaged in higher education quality assurance programmes at NAAC, NBA and TEQIP. Prof Sonde will fondly be remembered and revered for his contribution to IETE Bangalore Centre in specific, by present and past members of IETE.

IETE conveys his passing and prays for the eternal peace and rest for his soul.

**Dr P B Parikh (DF-016546)**, we are equally saddened to announce the loss of Dr P B Parikh, Distinguish Fellow of IETE and founder member of IETE Mumbai Centre, who passed away on 30th Oct 2019. Members of the Mumbai Centre are very deeply grieved by this tragic news. He was a Vice Admiral, he was one of the first Fortress Commanders of the Andaman and Nicobar group of Islands. After his tenure as Commandant of the College, he went on to become the Flag Officer Commanding-in-Chief of a Naval Command and thereafter Vice Chief of the Naval Staff. He was the Commandant of the National Defense College. As Commodore, he set up the VLF Station Project Skylark, for enhancing communication with submarines under water. Admiral Govil after retirement, assumed charge of the International Award for Young People, India (formerly the Duke of Edinburgh Award), which he served for 17 years, first as National Director & later Chairman. (After retirement, Admiral Govil assumed charge of the International Award for India’s young people (formerly the Duke of Edinburgh Award), where he served for 17 years, first as National Director & later Chairman). Concurrently, he was actively involved in setting up the National Maritime Foundation & served on Board of the USI. He was awarded an Honorary OBE by Her Majesty Queen Elizabeth in appreciation of his efforts for the youth of the Nation. Admiral Govil was a long time member of IETE, and enjoyed his interaction with fellow members. He will be surely missed by the fraternity.

**Vice Admiral SP Govil, AVSM, PVSM, OBE (F-024818)** passed away on 17th Aug 2019. Admiral Govil retired from the Indian Navy in 1992 after 43 years of meritorious service. He had been the Chief of Staff, Western Naval Command and Fleet Commander Eastern Fleet. As a Vice Admiral, he was one of the first Fortress Commanders of the Andaman and Nicobar group of Islands. After his tenure as Commandant of the College, he went on to become the Flag Officer Commanding-in-Chief of a Naval Command and thereafter Vice Chief of the Naval Staff. He was the Commandant of the National Defense College. As Commodore, he set up the VLF Station Project Skylark, for enhancing communication with submarines under water. Admiral Govil after retirement, assumed charge of the International Award for Young People, India (formerly the Duke of Edinburgh Award), which he served for 17 years, first as National Director & later Chairman. (After retirement, Admiral Govil assumed charge of the International Award for India’s young people (formerly the Duke of Edinburgh Award), where he served for 17 years, first as National Director & later Chairman). Concurrently, he was actively involved in setting up the National Maritime Foundation & served on Board of the USI. He was awarded an Honorary OBE by Her Majesty Queen Elizabeth in appreciation of his efforts for the youth of the Nation. Admiral Govil was a long time member of IETE, and enjoyed his interaction with fellow members. He will be surely missed by the fraternity.

**Dr R S Khandpur (F-020986)**, left for heavenly abode on 17th Nov 2017. He was referred to as the ‘Science Man’ of Punjab and was born at Safdarabad in Pakistan in 1942. He had long association with IETE HQ as well as IETE Chandigarh Centre. He contributed for the establishment of an IETE award in the area of Bio-Medical Sciences and was Hony Secretary, IETE Chandigarh Centre (1979-80). He was the Director, CEDTI (Now C-DAC) Mohali. Dr Khandpur was a celebrated scientist with several books and awards to his credit. He chaired various bodies of the Dept of Science & Technology. Dr Khandpur, as founder Director, Science City, contributed immensely for developing Punjab Science City at Kapurthala. We pray to Almighty that his soul rest in peace and give strength to his family to bear this irreparable loss.

**Prof T Krishnan (F-027465)** passed away on 11th Sept 2019. During 1980s and 1990s, he was actively associated with IETE and also served as Chairman of IETE Chennai Centre (then Madras) chapter for few years.

**Gp Capt M Mukutmoni (Retd) (F-040019)** passed away on 6th Dec 2019 after long illness. He served IETE as Chairman IETE Kolkata Centre & Governing Council Member.
Dr (Dr) Priti Paresh Rege (F-125901) is an ideal Professor in the Dept of E&T, College of Engineering Pune, India. An accommodating and versatile individual with a passion for teaching in the field of technical education, Dr Priti has demonstrated ability to train, develop and nurture talent within the fellow students. For over 34 years of her teaching profession, she has continuously employed effective methodologies to develop & inspire student’s imagination through hands-on lessons and breed success, which has won her accolades from student’s community. As an eminent educationist and researcher, she has successfully received grants from AICTE, DST and BRNS for various research projects. She has guided 10 PhD students, and more than 50 ME/MTech students. Under her able guidance and genuine interest several students have won project competitions, classifying her great mentor. Prof Rege sees her accomplishment in the success of her students, some of whom are now successful technocrats or have received coveted awards or scholarships. She is actively engaged in and consistently helping genuinely deprived students for attaining scholarships to them. She herself has won many honours and accolades from time to time, including the Best Faculty Award by Cognizant for the year 2012-13; prestigious IETE’s Prof SVC Aiyaa Award for excellence in Telecom Education for the year 2016 and Prof Indira Parikh “50 Women in Education Leaders” at the World Education Congress in 2018. Prof Rege has shown an equal drive for academic leadership in the capacity of HoD/E&T, Dean (Student Affairs) and Dean (Academics).

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Call for Nominations for IETE Awards 2020

Do you know someone who has made an outstanding contribution to IETE?

IETE’s Awards recognise those who have given significant service and made distinguished contributions to the profession.

Bestowed annually by the IETE Governing Council & IETE Board, IETE Awards is a great opportunity to acknowledge a colleague/Member whose efforts you admire and respect.

The Call for Nominations is out now. Don’t delay!

Nominations for awards to be conferred in Sept 2020 are invited, in confidence, which may be sent by email as an attachment, or by post.

Details and description of each award can be found at
http://www.iete.org/Call%20for%20Nomination%20Main%20Awards%20for%20website.pdf

Nomination Submission Deadline:

For any query please e-mail at mgeditor@iete.org or
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