

From President's Desk



Dear Members,

With this newsletter, I will be bidding adieu to you as president of this Institution and passing on the baton to the able hands. I am sure under new leadership IETE will increase its pace of progress.

Though the last two years has been quite challenging nevertheless gratifying because I had never ending opportunities to engage and discover. But with the encouragement of members and Centres, IETE continued to hold and disseminate technical thoughts and programmes through its various initiatives and activities.

The past months saw IETE organize two Zonal Seminars along with ISF Congress in West and South Zones. IETE Pune Centre (West Zone) focused on the topic "Innovation in Information and Communication Technology" organized at DY Patil Institute of Technology, Pimpri, Pune during 28th-29th Jun 2019. While IETE Chennai Centre from South Zone conducted a seminar on the topic "Smart Engineering for Sustainable Development" on 20 & 21 Sept 2019. The events brought together the subject matter experts and witnessed active participation. In addition, it gives me great pleasure to inform that IETE Professional Activity Centre at Australia, is continuously striving to scale up and benchmark itself with best practices of IETE. It has been holding conferences and technical talks in the light of the latest technology trends and industrial needs. I appreciate the team's solidarity and genuine enthusiasm for IETE & its activities. We are seeing them create a stronger presence overseas with their tireless efforts.

This issue of IETE Newsletter also carries details of 51st World Telecommunication & Information Society Day activities apart from other programmes and workshops that were organized by various IETE Centres pan India. It also has two interesting columns by experts on Chandrayaan 2.

I take this opportunity to congratulate IETE Awardees (both Senior Members & students) who have made significant contribution to the profession and achieved academic excellence in their courses. We acknowledge their hard work and contribution to the society and heartily congratulate them. Their names have been published in this issue for information of all. I wish them more success in their lives.

Talking of Publications, I thank the Editorial team members, authors, collaborators for their stupendous efforts in earning us quality tag for our journals. I am sure with so many experts and technical contributors IETE Publications have a bright future and can extend its excellent and serious work to the community in coming years.

It is with deep regret and profound grief that I inform of passing away of Col B K Rai, Distinguished Fellow and Past President of IETE on 19th Aug 2019. Entire IETE family mourns his passing and conveys heartfelt condolences to the bereaved family members.

Our Annual IETE Convention is scheduled from 28th to 29th Sept 2019 at Ayodhya, UP. I extend my invitation to all members to participate actively and make it a success.

Finally, I would like to express my gratitude to the outgoing members of the IETE Governing Council for the wonderful job they did during their term, and I extend my heartiest welcome to the newly elected Governing Council Members. I also take this opportunity to convey my heartfelt thanks to all IETE members and staff for giving me unstinted support during my two years term as President IETE. As I prepare to leave, I do so with immense sense of pride and will like to inform that we have taken path breaking initiative in establishing IETE University at Ranchi. With the support of Jharkhand Government, we have submitted the Draft Project Report for going forward.

I wish IETE all the best.

Prof (Dr) KTV Reddy

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IETE HQs, New Delhi



IETE President Elect – 2019-20



Prof (Dr) J W Bakal is MTech, PhD in computer engineering with 32 yrs of professional experience, which includes seven years of industrial experience and more than twenty five years of academic experience.

Prof Bakal is the Principal, Shivajirao S Jondhale College of Engineering, Dombivali, where he has been serving for almost a decade now. He has recently been appointed as Director In-charge of School of Engineering and Applied Sciences, University of Mumbai, Kalyan. Earlier, he has worked as the Principal for Bharati Vidyapeeth College of Engineering, Navi Mumbai. He served in the University of Mumbai as Chairman, Board of Studies in Information Technology; Chairman Board of Studies in Computer Engineering and Member, Board of Studies in MCA. He has been the member of Academic Council, Research and Recognition Committee of University of Mumbai. As PG and PhD Guide in the Univ of Mumbai, he has guided more than 50 PG students and 8 PhD Research scholars. He has

over 200 publications to his credit in various journals and conferences of repute. As an inventor, he has 7 patents to his credit and a few more have been filed by him. Prof Bakal is the recipient of IETE-B R Batra Memorial Award-2017 and a National Award-Achievement in Education Excellence Award by NEHRDO, New Delhi.

He had been actively involved in the development of IETE Mumbai Centre and served it as its Chairman (2010-12), Vice Chairman and Honorary Secretary. The Mumbai Centre got its own premises at Chembur, during his tenure as the Centre Honorary Secretary. He has successfully organized several international and national conferences, ATC 2009 was one of it. Under his chairmanship, the Centre received the Best Centre Award in 2011-12 at Bangalore. He was the convener of the programme organized to commemorate Diamond Jubilee Year of the IETE at Mumbai Centre. Prof Bakal is a member of many technical professional bodies, namely IETE(India), IE(Kolkata), International Association of Computer Science and Information Technology (Singapore), IEEE (USA) and International Journal of Engineering Research and Industrial Applications (India).

He served IETE Governing Council during 2013-2016 and performed the duties of the Chairman of IETE Academic Committee. In 2018 he was re-elected in the IETE Governing Council for the term 2018-2021 and graciously took on the responsibility as Vice President of IETE, New Delhi. This year, he has succeeded to the presidency and has been elected as the President (2019-20). He will be taking over the mantle of Presidentship from Prof (Dr) KTV Reddy, President (2017-19) during Annual IETE Convention -2019 scheduled to be held at Ayodhya on 28th Sept 2019.

Congratulations to Prof (Dr) J W Bakal on his success and best wishes as he embarks upon his new responsibilities.

IETE Honorary Fellow (2019)

CITATION



Dr Ulrich L Rohde, a pioneer in radio frequency and microwave technology, was born on May 20, 1940, He is the owner of several companies in the USA and a partner in the global company Rohde & Schwarz GmbH & Co, KG. Dr. Ulrich L Rohde also served as the President of the Rohde & Schwarz Subsidiary in Fairfield, New Jersey and as Managing Director at RCA Corporation, New Jersey and later on became the President of his own company Compact Software Inc. in New Jersey. Afterwards, Dr. Ulrich L Rohde established the Synergy Microwave Corporation at the same location and continues to serve as its Chairman of the Supervisory Board and also as the President of the Communications Consulting Corporation in Marco Island, Florida.

Dr. Ulrich L Rohde, a doctorate in radio frequency engineering, has also served as a professor of electrical and microwave engineering at four prestigious universities in Germany, Romania and the USA. He also successfully completed an Executive Business Administration Program at Columbia University, New York and was invited to join the Epsilon Sigma Chapter of the Eta Kappa Nu Association. In 2006, Dr. Ulrich L Rohde was selected as part of the microwave legend and was placed among the 45 people world over who have shaped the microwave industry through innovation and invention.

Dr. Ulrich L Rohde received many awards, recognitions and honors from prestigious institutions, universities and Government bodies such as C B Sawyer Memorial Award, IFCS I. I. Rabi Award, IEEE Region 1 Award, Distinguished Achievement Award, W. G. Cady award, RCA Life Time Achievement Award and the 2019 IEEE CAS Industrial Pioneer Award. Oradea University, Grosswardein and Cluj-Napoca University, Klausenberg granted him honorary doctorates and he was chosen as the Fellow of the IEEE. The University of the German Armed Forces Munich and the Brandenburg University of Technology Cottbus – Senftenberg appointed Dr. Ulrich L Rohde an Honorary Senator in 2008 and 2011. Based on Dr. Rohde's five decades of scientific contributions, technological innovations and proven leadership, IEEE has established three prestigious awards in his name.

Dr. Ulrich L Rohde published more than 350 scientific papers, written several test books and established the Ulrich L Rohde Foundation in Munich in 2008. To pursue his hobby of amateur radio and sailing, Dr. Ulrich L Rohde operates several radio stations in Germany and the USA.

IETE is proud to confer the Honorary Fellowship of the Institution on Dr. Ulrich L Rohde.

2019 IETE Lifetime Achievement Award

Prof S Narayana, Hyderabad



The IETE Lifetime Achievement Award honours individuals who have inspired others with their work in electronics, telecommunication & allied fields and demonstrated tangible and persistent contributions.

Prof S Narayana's accomplishments, over the course of many years, have strengthened the IETE community. His leadership extends beyond our community to influence and impact the entire engineering fraternity. He has been a committed supporter of IETE for decades and an inspiration to all.

A humble & dynamic leader, **Prof S Narayana, DFETE (DF-026368)**, is presently working as Emeritus Professor at the department of EIE in CVR College of Engineering, Hyderabad. He obtained his graduate degree in Electronics and Communication Engineering from the Osmania University and MTech from JNTU, Hyderabad. He started his career in DRDO, where he worked in the field of Guided Missile Radar and subsequently moved to the National Geophysical Research Institute (NGRI), CSIR in 1976. He retired as Scientist 'G' (Director Grade Scientist) in June, 2008. Prof S Narayana contributed to the design and development of a variety of geophysical instruments using state-of-the-art technology for the investigation of ground water, minerals and engineering studies, which are simple but of tremendous use to common people. The technical know-how of these instruments has been transferred to the industry for commercial production. He is the recipient of a number of honours and awards, which include Best Invention Award; Engineer of the Year Award-2000; Best Scientist / Engineer in the State for the benefit of Industry, Trade and Agriculture-2002 and IETE Toshniwal Gold Medal Award- 2004. He has been conferred the Distinguished Fellowship of the IETE in 2013.

Under the leadership of Prof S Narayana as president, the IETE advanced in all directions through his vision, zeal and leadership. He brought in successful change initiatives like celebrations of IETE Foundation Day and IETE Convocation celebrations. He conceptualized and successfully conducted an Interaction Meet to encourage and familiarize all Office Bearers with the working & operations of IETE in August 2008. He introduced the automation in the examination procedures for declaring faster results. To improve the quality of the IETE Journals, steps were taken to introduce online submissions and review systems. During his tenure, there was a quantum jump in the statistics of IETE Centres and membership data. His enormous efforts resulted in acquiring own office buildings by six IETE Centres, thereby improving the overall infrastructures of the Institution. To provide a helping hand to the students in their initial step into the world of work, he opened a Placement Cell at IETE Hqs, which served as an interface between IETE graduates and companies for their placements. Prof Narayana was also instrumental in starting the IETE Alumni Association, giving opportunity to alumni to stay connected to their alma mater. His zeal and untiring efforts in getting the Building Complex including an Auditorium constructed at IETE Hyderabad Centre is very significant and exceptional. Acknowledging his services to the IETE in general and Hyderabad Centre in particular, the IETE Hyderabad Centre instituted an "Annual Endowment Lecture" in his honour.

IETE is pleased to honour Prof S Narayana for his long and prolific career and present him with IETE Lifetime Achievement Award 2019.

Congratulations to Prof S Narayana on being selected for the IETE Life Time Achievement Award - 2019 by the IETE. This award will be conferred on him at the inaugural session of 62nd Annual IETE Convention at Ayodhya (UP) on 28th Sept 2019.

News from Headquarters

Report on 51st World Telecommunication and Information Society Day celebration on "Bridging the Standardisation Gap"

IETE Headquarters celebrated 51st 'World Telecommunication and Information Society Day' on 17th May 2019 focusing on the theme chosen by ITU, namely 'Bridging the Standardization Gap'. The event was organized in joint sponsorship of Delhi Centre of Institution of Engineers (India) and Institute of Engineering and Technology (UK) India chapter.

Chief Guest, **Shri Vinod Kumar Yadav**, Chairman Railway Board and ex-officio Principal Secretary, Govt of India, inaugurated the function. **Shri Arvind Chawla**, Sr Dy Director General, TEC and **Shri AK Gupta** CGM (OP & Maintenance) BBNL were

the Guests of Honour. **Prof (Dr) KTV Reddy**, President IETE, chaired the function.

Prof M N Hoda, Chairman, Technical Programs and Publicity Committee welcomed the Chief Guest and VIPs on the dais, which include- **Shri Dinesh Kumar**, Chairman Delhi Centre (IE India), **Shri RN Rajpoot**, Vice Chairman, CCSA, IET (UK); Invited speakers- **Shri Aniruddha Bose**, Nokia, **Shri Sushil Kumar**, TEC, **Dr Sujay Deb**, IIITD, **Dr Abhijit Mitra**, IIITD and **Prof Anirban Pathak**, IIIT Noida.

Prof **Hoda** in his inimitable style elucidated the compelling-significance of the theme in view of mind-blowing technical strides that are overwhelming present-day society for tackling the daunting challenge of Interoperability. He outlined historical background of establishment of International Telecommunication Union at Paris when 20 European countries signed the landmark charter on 17th May 1865, paving the way for synergistic global cooperation in the vital field. He mentioned that India joined ITU in 1868 - eight years before discovery of telephone by Graham Bell in 1876!

Invited speaker, **Shri Aniruddha Bose** pointed out the telecom value-shift taking place every 10 years. He emphasized that today communications is evolving from being voice-centric to data-centric mode, wherein as much as 30 petabytes of data every day is consumed by 400 million. With 4G becoming all pervasive and affordable, 70% of users' time is spent on video. Next year with deployment of 5G, we shall experience enhanced mobile broadband, low latency and massive machine-to-machine communications. Operating system will not matter that much because 'Cloud computing' will enable faster secure processing.

Invited speaker, **Shri Sushil Kumar** remarked that establishment of smart infrastructure can effectively address challenges of cities

facing the onslaught of rural migration. He nicely explained importance of 'Internet of Things' to meet United Nations enunciation of 17 Sustainable Goals for humanity. Enumerating Artificial Intelligence applications in various verticals to enhance effectiveness of governance, he contended that instead of operating in silos, it is imperative to have cross-domain data utilization. Highlighted 5G usage scenario for enabling Emerging Technologies such as Intelligent transportation Systems, Wearable Devices, Industrial IOT, Connected Vehicles and Smart Living, concluding that 'Analytics need to be done in an automobile itself for secure commuting'.

Invited speaker, **Dr Sujay Deb** spoke on 'IOT Standardisation: Promises and Challenges'. Explaining the term IOT for a common man, he said it implies, devices talking to each other without human intervention. Though less than 1% of devices are interconnected, industry estimates had suggested that by 2020-end as many as 50 billion devices will be interconnected, putting enormous pressure needing harmonization of operating protocols. Intelligent deployment of IoT will reduce incidents of wildlife poaching besides trade in banned items like ivory. Overcoming the resource-constrained scenario characterizing developing countries, IOT will usher preventive care for teeming



millions besides guiding farmers to optimize cropping-patterns & usage of inputs like fertilizers. He gave a new perspective to the term, 'Smart', *i.e.* an entity is smart if it can quickly find means to delegate, thereby optimizing operations to achieve efficiency. Basically, smartness comes from 'Communication capability' as computing will occur in the 'Cloud', he concluded. Finally, he cautioned, that in India, technology solutions to be successful have to be affordable.

Invited speaker, **Dr Abhijit Mitra** pointed out that world is observing overwhelming surge of data, with each human being becoming data-generator via social media tools available on smart phones. Stressing that such a data tsunami will need optical networks for efficient handling, he explained his PhD work done on the topic of Elastic Optical Networks (EON). This new technique using optical fibres in C-band is an enabler for 5G core networks. He highlighted ongoing novel efforts to use LEDs to serve as base stations besides Solar panels becoming telecom platforms. Such

innovative developments will see evolution from 'Fixed' power grids of today to become 'Flexigrids', transforming society from an 'era of deprivation' to 'always-availability of essentials'. The last invited speaker for the day was **Prof Anirban Pathak**, IIIT Noida, who spoke on quantum computing and communication.

Then were the addresses from the Guests of Honour: **Shri Arvind Chawla**, Sr Dy Dir Gen, TEC and **Shri A K Gupta**, CGM (OP.& Maintenance) BBNL. **Prof (Dr) KTV Reddy**, President IETE, delivered the presidential address. **Shri Dinesh Kumar**, Chairman Delhi State Centre IE(I) and **Shri R N Rajpoot**, Vice Chairman CCSA, IET (UK), also shared their views on the subject topic. This was followed by the address by the Chief Guest- **Shri Vinod Kumar Yadav**, Chairman Railway Board and Ex-officio Principal Secretary, Govt of India.

The programme concluded with a formal vote of thanks by the Secretary General, IETE, which was followed by the cultural programme and dinner.

IETE Zonal Seminars and ISFs Congress

✦ **IETE Zonal Seminar (East) & ISF Congress** together with 4th 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 ARTTC BSNL Ranchi on 11th-12th May 2019. The dignitaries gracing the occasion included: **Dr D K Tiwari**, IAS, Chief Secretary Govt of Jharkhand, the Chief Guest; **Prof (Dr) KTV Reddy**, President IETE; **Lt Gen (Dr) AKS Chandele**, PVSM, AVSM (Retd), Immdt Past President IETE; **Prof JK Mandal**, keynote speaker from Kalyani University; **Prof Sachidanand Shukla**, Pro-VC, Dr RML Avadh University Ayodhya; **Prof (Dr) AP Thakare**, Mentor IETE East Zone; **Shri KK Thakur**, CGMT BSNL & Chairman IETE Ranchi Centre; **Dr Martin Stava**, Brno University of Technology, Czechia, also a keynote speaker; **Dr Vijay Nath**, faculty BIT Mesra and General Chair MCCS-2019 & Hony Secretary IETE Ranchi Centre and **Dr Anand Kumar Thakur**, faculty Ranchi University, Hony Treasurer IETE Ranchi Centre & Organizing Secretary MCCS-2019.

The welcome address was delivered by Shri KK Thakur, who also outlined the activities of IETE Ranchi Centre in his address. Dr Vijay Nath gave an overview of the technical activities planned under a two day conference. Dr JK Mandal in his keynote lecture described the role of advanced digital signal processing in ICT. The

need of educational research was emphasized by Lt Gen (Dr) AKS Chandele, PVSM, AVSM (Retd). Dr KTV Reddy enumerated the IETE activities whereas Dr Ajay Thakare also spoke and lauded the activities of Ranchi Centre. The **1st Technical Session** had two tracks. **Track I** was on **Microelectronics & Signal Processing** and was chaired by **Prof (Dr) KTV Reddy** and co-chaired by **Dr JK Mandal**. Other chair persons included- Dr B Acharya, Dr Rishi Sharma, Dr Amritanjali, Dr RK Lal, Dr S Chakraborty, Dr Raj Kumar Singh, Dr Shruti Garg, Dr K Bose, Dr Sanjeet Kumar, wherein 25 outstanding papers were presented. **Track II** was on **VLSI Design & Communication System**, chaired by **Lt Gen (Dr) AKS Chandele PVSM, AVSM (Retd)** and co-chaired by **Dr SN Shukla**. The expert panelists in the session were: Dr Ajay Raghubanshi, Dr SS Tripathi, Dr Anil Kumar, Dr Sanchita Pal, Dr SK Sahana, Dr Kumari Mamta Singh, Dr KS Patnaik, Dr S Pushkar, Dr Madhu Priya, Dr PP Das who judged and evaluated 25 outstanding papers presented in the session.

2nd Technical Session on Artificial Intelligence & Computational System was chaired by **Dr AP Thakare** and the domain experts who evaluated the papers were: Dr B Acharya, Dr MK Mukul, Dr P Pal, Dr Anand Kr Thakur, Dr Martin Stava, Dr Rajanish Kumar, Dr A K Pandey, Dr SDK Verma. Eight numbers of papers were presented in this session. Concluding lecture in the session was by Dr SN Shukla.



Next Technical Session on Embedded System & Internet of Things was graced by **Dr V Bhattacharya**, the Session Chair and **Dr P Sidarth Lodhake**, the Co-Chair. The expert panelists were: Dr V Anandi, Dr KK Senapati, Dr I Mukherjee, Dr Anil Kumar, Dr SK Sahana, Dr A K Tiwary, Dr Vijay Nath, Dr Tanusree, Dr S Chakraborty. This session was organized parallelly in both modes. 20 papers were presented through skype, while 8 papers were presented on the spot.

4th Technical Session on Green Energy and Automation was chaired by the session Chairman -**Dr PR Thakura** and the Co-Chairman **Dr VK Jha**. Experts invited in the session were- Dr Arun Kumar, Dr Arundayal Udai, Dr Om Prakash, Dr Kumari Mamta Singh, Dr I Mukherjee, Dr S K Mahapatra, Dr Samama Anwar, Dr SS Sahu, Dr Deepak Kumar, Dr B Chakraborty. This session saw evaluation of 22 technical papers.

ISF Congress

One special session was organized under the chairmanship of **Dr AP Thakare** and attended by in-charges of various ISFs, namely- **BIT Mesra Ranchi** represented by Dr PR Thakura; **NSIT Patna**- Dr Swastika; **BITT Ranchi** by Dr M Priadarshi and **ISF Kolkata** by Dr JK Mandal. During the Conference a Model presentation was also arranged. The Chairman announced the execution of **Summer School programme on Digital VLSI Design (SSDVD-2019)** along with **1st International Science Exhibition Congress (SEC-2019)** during 26-30 June 2019 and **5th International Conference on Nanoelectronics, Circuits and Communication Systems (NCCS-2019)** that has been planned for 9th-10th Nov 2019 at ARTTC BSNL Ranchi.

★ **IETE Zonal Seminar (West) & ISF Congress on “Innovation in Information and Communication Technology”** was organized at DY Patil Institute of Technology, Pimpri, Pune during 28th-29th Jun 2019. On the occasion the welcome speech was delivered by the Convener **Shri K R Shende**, Chairman. IETE Pune Centre. **Dr S R Jog**, HoD/E&TC, and the Convener of the programme gave the introductory remarks. He announced the release of **IETE National Journal of Innovation and Research (NJIR)**, Vol. VI, Issue 1, June 2018 and spoke on the significance of the topic of the seminar. Giving the broad-view of the workshop, he also presented various session arrangements. Different topics covered were related to Emerging Technologies, IoT, Cloud Computing, Digital Change in equation of Future, Cobot and its applications, Machine Learning, Agile and Dev Ops. He also informed about the inclusion of best selected papers from Conference held on “Recent Advances and Challenges in

Engineering and Management (RACEM 2019)” in Mar 2019. **Prof Dheeraj Agrawal**, Training and Placement Officer, DIT, emphasized the need for bridging the gap between academia and industry to increase employability. The Guest of Honour, **Dr Swati Sinha**, Prof, VIT Mumbai, spoke about the highlights of the International Conference RACEM 2019, conducted at VIT and expressed her gratitude for publishing the best papers of the conference in IETE NJIR. In addition, she spoke about recent advancements in the field of Information and Communication Technology. **Prof SK Khedkar**, West Zone Co-ordinator, expressed his contentment on the progress of the college in terms of expansion of facilities, infrastructure and development of the faculty members. He pointed about the consequences and need for conduct of such seminars for the benefit of faculty members.

Dr S N Mali, Principal of DIT, articulated on the DIT’s aims and the measures being undertaken towards imparting quality technical education to the students. He mentioned about campus placement scenario and stressed on the need for industry collaborations. **Prof (Dr) KTV Reddy**, in his address, spoke at length about the various activities of IETE and the benefits of IETE membership. He gave a brief on IETE student forums, seminars, workshops, conferences and zonal conferences which are of great use to teachers, students and researchers. He congratulated IETE Pune Center and DIT for organizing the programme. Vote of thanks was proposed by **Dr R D Kharadkar**, Hony Secretary, IETE Pune Centre, followed by the National Anthem.

Eight different sessions were spread over two days. The resource persons from industry with their different topics were: **Dr Parag Kulkarni**, Director, Kvinna Ltd. Pune on ‘Emerging Technologies, IoT, Cloud Computing’; **Shri Vinayak Jagtap**, Iknowlation Research Labs Pvt Ltd on ‘Innovation in IoT’; **Shri Prakash Kajve**, Tech Mahindra on ‘Digital Change in equation of Future’; **Shri Prasad Kulkarni**, Vice President, Logicon on ‘Cobot and its Applications’; **Dr Manasi Patwardan**, TCS, on ‘Machine Learning’; **Shri Nitin Ghatge**, Cap Gemini, on ‘Agile and Dev Ops’; **Shri Sagar Pandkar**, Xpansion India Pvt Ltd, on ‘Internet of Things’ and **Shri Avinash Thakur**, Patent Consultant, on ‘Patents and Copyrights’. The sessions were informative and appreciated by all. The valedictory session of the Zonal Seminar was conducted on 29th June 2019 in presence of **Prof (Dr) J W Bakal**, Vice-President, IETE. He addressed the gathering and later distributed certificates to the participants of the Zonal Seminar.

An ISF Congress and ISF meeting was also convened by the Vice-President of IETE as its chairperson.



Newly Elected IETE Governing Council Members (2019-22)

Congratulations to all!



Ajay Kumar (F037192L) an alumnus of IETE, is presently the Faculty Head of Broadband and Access Technology at Advance Regional Telecom Training Centre (ARTTC), BSNL Ranchi. He joined Indian Army in the Corps of EME in 1979 as Apprentice at ATS, Bhopal. During his brief stint of 12 years, he served Army in various capacities at various regions including Leh,

Mhow and Adv Base Workshop at Guwahati. He had been faculty at MCEME Secunderabad during 1986-1992 but left due to medical issues. Later, he worked as a R&D engineer at Epsilon Electronic Equipment and Components Pvt. Ltd, Hyderabad, before joining DOT in 1995.

He has completed AMIETE (EC), MTech (CS), PGDCA and presently perusing his PhD in computer science from Usha Martin University, Ranchi, Jharkhand. Having worked mostly in Hyderabad, Jabalpur and Ranchi, he had the opportunity to work in different telecom technologies starting from manual exchanges, Strowger, Crossbar, E10B, C-DOT, EWSD, OCB, 5ESS, Broadband Access Technologies, FTTH, CDMA, WIFI and GSM. He had been associated with development of indigenous Dotsoft software for customer service, provisioning and billing systems. In 2007 he was posted as faculty to BRBRAITT, premier training Institute of DOT/BSNL at Jabalpur and later transferred to ARTTC, Jharkhand Telecom Circle. He has been associated with IETE more than 25 years, as an executive committee member at Hyderabad during 2001-2007. He chaired & conducted many short term courses during these years on VLSI, UNIX administration, ORACLE and advanced JAVA. IETE Hyderabad Centre won the best Centre Award during his tenure. He served IETE Ranchi Centre as Hony Treasurer, Hony Secretary and Centre Chairman where he was instrumental in conducting many international/national and zonal seminars. His fields of interest include-Data Communication, Broadband and Access technology, VLSI Design. He attended several workshops, seminars and trainings on Switching, Transmission, Mobile and Management courses.



Wg Cdr K C Bhardwaj (F048493L) has received his MSc degree in Electronics and ALCCS in Computer Science (MTech equivalent). He is a member of professional societies, namely-Fellow of IETE; Associate Member of IE and Member of AIMA. He has vast experience of twenty nine years in AF Telecomm and Radar systems and has carried out deployment of mobile Tropo-

Scatter systems as per Air Force requirement, development and operations. He also served at Radar & Communication Project Office of Ministry of Defence for System Technique Development. Wg Cdr Bhardwaj has been associated with IETE for more than twenty eight years, which include one term as Governing Council member and for six years with IETE Delhi Centre under various

capacities, viz. EC Member, Vice-Chairman, Hony Treasurer, and then as Centre Chairman. His contribution in improving the financial position of the Centre has been very significant. The Centre bagged the Best Centre Award during his tenure.



Prof (Dr) V Gunasekhar Reddy (F122825) has served IETE for 30 years, wherein he performed duties of Vice-President in his second term during 2016-18 in the course of his two terms as IETE Governing Council member in 2011-14 & 2015-18. Earlier, he has worked for IETE Hyderabad Centre in various capacities as EC Member, Hony Treasurer and Centre Chairman in 2008-

10. His significant contributions at the Hyderabad Centre were successful in securing Best Centre Award three times. He has been instrumental in the growth & development of IETE Tirupati & IETE Warangal Centres as well.

Having 35 years of experience in the field of Telecommunications, he now works as Professor ECE Dept at Mahaveer Institute of Science & Technology, Hyderabad and as a Consultant for Tirumala Tirupati Devasthanams (TTD), Tirupati, Govt. of Andhra Pradesh for Secure Communications Networks. Prof Reddy's illustrious career profile in the past includes serving the AP Police Communications, Hyderabad as DIG Police & Adtl. Director, Police Communications, Hyderabad for 18 years; working with Greyhounds, which is a police special forces unit operating in the Indian states of Andhra Pradesh and Telengana as SP Comms for 5 years; with UPTRON India Ltd., Bangalore & Hyderabad as its Branch Manager for 10 years, with Bharath Electronics Ltd. Bangalore as Publication Officer for 2.5 years and with Videsh Sanchar Nigam Ltd, Mumbai as the Technical Officer for 2.5 years. During 2004, he worked as UN Civil Police Officer at Kosovo. He has published many papers in scientific journals & authored a book on *Atmospheric Constraints in HF/UHF/Satellite Communication* in the Indian sub-continent.



Maj I M Kapoor (Retd) (F041737) retired as Head of Electrical Department from Pusa Polytechnic Delhi. Prior to that he served the National Cadet Corps of Indian Army in the rank of Major. He is a member of professional societies namely- FIETE, FIE, IN-ISTE, IFUNA, Nafen, Member Press Club of India Delhi and Central Sectt Club India. He has been guest faculty for 13 years

in top Govt Engg colleges of Delhi like IP University Campus, DTU, NSIT, IGIT, AIT, Hotel Management Institute etc. He has been associated with IETE Delhi Centre since 2002. During 2014-16 he was elected as its Chairman when the Centre bagged it's another Best Centre Award. He promises to work hard to restore recognition of IETE Diploma / Degree and use his vast experience of military, academia & media connections for publicity.



Prof (Wg Cdr) Pradeep Prabhakar (Retd) (F-030017) is known for his academic and professional accomplishment, vast administrative experience and vision towards higher technical education, skill development in upcoming frontal areas and innovation. He has more than 45 years of professional experience including 22 years in Indian Airforce. During his service career, he held

various prestigious appointments and was specially selected for the Induction of Mirage- 2000 Aircraft Weapon System with M/S Matra, France. He commanded two very important Units and received many honours, awards and appreciations during his service career. He took premature retirement as Wing Commander. For the last 23 years, he has been Director- Principal of many prestigious engineering colleges in states of Punjab, Haryana and Himachal Pradesh. He also has served two prestigious Universities. He has 40 years long association with IETE. His involvement with IETE Chandigarh Centre started in 1999 as EC member and then subsequently as it's Chairman from 2004-06. As Centre Chairman, apart from managing important activities, he put in dedicated efforts for the construction of the Auditorium, Committee Room and e- learning infrastructure. Now, the same are the major source of revenue generation for the Centre. In the Governing Council (2019-22), he will be the senior most serving GC member, from 2004-06 as Ex officio member, 2010-13(1st term), 2014-15(Casual vacancy), 2015-2018 (2nd term). As a Governing Council member, he has been very regular in attending GC meetings and has contributed immensely towards technical programmes, academic/student affairs including ISFs, centre(s) affairs, membership growth, interaction with various Ministries of Govt. of India, skill development programs and alumni affairs. He was part of the team representing our case for recognition of Courses with AICTE and subsequently pursuing the case of establishing IETE University with the Govt. of Manipur. To bring Srinagar on the map of IETE, he was instrumental in conducting IETE Golden Jubilee two days Seminar at NIT Srinagar in collaboration with Kashmir University and NIELET. During the same period, an ISF was also established at NIT, Srinagar and 70 new Corporate Members were also inducted. He successfully conducted three (2016, 2017 and 2018) national level Innovation Meets involving young talent, researchers and members of prestigious Industry. He received appreciation for IETE from BIS Council for positive contribution and ensuring participation in 05 important BIS Committees. Due to his efforts as Chairman, BoRIS, IETE received Scientific and Research Organization (SIRO) recognition for the period 2018-21. During his forty years long association with IETE, he has always been striving for the betterment of the organization and its commitment for benefits of society at large.



G Ramesh (F036376L) presently is a Division Head at UR Rao Satellite Centre, ISRO. He has been serving ISRO/ISAC since 1983, and has made significant contributions in the field of Quality Control, Quality Assurance, Project/Program Management and Indigenization etc. He was QA in-

charge for Solar Panel fabrication, Indigenisation of Solar Cells (BEL)/ Integrated Circuits and ASICs (BEL/ITI)/ Hybrid Micro Circuits (WIE/HAL/ISAC/KHMD). He was responsible for QA in establishment of ASIC foundry (SITAR). He was a Project Manager RQA(E) SROSS-C2 Spacecraft and Electrical Systems in-charge ASTROSAT. He made remarkable contributions towards welfare of ISRO community as Hony. Treasurer and Hony. Secretary of Space Officers Association (SOA). Shri Ramesh is a member of number of sister societies namely Fellow(L)IETE, Life Member SEE / IMAPS /ISRS /ISSE /INSRAM. Graduated from IETE in 1985 after obtaining MDT/RC (an INDO-USSR course) in 1982, he subsequently obtained a PG Diploma degree in Management from IGNOU, and MTech from BITS Pilani (WILP). He is a qualified lead Auditor of ISO9001:2015. He was also the Organising Chair of the first ever IETE International conference IICI-18 held at Bangalore. Shri Ramesh served IMAPS India Chapter nearly for 2 decades as a volunteer, member of executive committee, Hony Jt. Secretary and Hony Secretary. He was instrumental in organizing IMAPS India National Conferences (IINCs) at NRSA Hyderabad, IIT Mumbai and an International Conference on Emerging Microelectronics and Interconnection technologies (EMIT-08) in 2008 at NIAS Bangalore.

As a new GC member, his commitment will be towards teamwork. He calls for collaboration, cooperation of and harmony amongst all members. Truly believes in motto of IETE i.e Sahaverya Karavahai and wishes that every centre of IETE be made as a temple of learning.



Shiv Kumar (F-045109) an alumnus of IETE, completed his Advanced Level Course in Computer Science from IETE in 1995; MSc (Maths) from Meerut University in 1986; AMIETE in ETE from IETE New Delhi in 1989; one year Executive Programme in Strategic Management from IIM Calcutta in 2005 and an Advanced Cyber Security program from SETS, Chennai.

He has 30 years of multi-dimensional experience in the field of Telecom & IT (Wireless/Mobile Communication, OFC/FTTx). His new initiatives in digital transformation are Smart City Communication Technologies, Blockchain, AI, IoT and Cyber Security. He served various organizations at various capacities, which include the Dept of Telecom, BSNL/MTNL as Gr-B Officer, Operations & Maintenance; Ericsson Wireless Communications Inc., San Diego, CA; Software Technology Parks of India (STPI), New Delhi as Jt Director; Qualcomm (India) Pvt. Ltd, New Delhi; Nokia Siemens Networks Pvt. Ltd, New Delhi as Sr Account Manager, Public Operators & Defence. Presently, he is heading the company- Redefine Dimensions Convergence Pvt Ltd, as its Director & CEO and venturing into skill development initiatives consulting & technology solutions, since Apr 2012.

Shri Shiv Kumar is a member of many professional sister societies, viz., Fellow-IETE, Fellow-CSE, Member-AIMA, Associate Member- DSCI (Data Security Council of India), NASSCOM and NCSS (National Cyber Safety and Security Standards).

IETE Awardees – 2019

IETE recognizes outstanding achievements amongst its members and other professionals in the broad areas of Electronics, Telecommunication, Computers, Information Technology and related disciplines through annual/biennial awards. This year IETE received good number of nominations. The Awardees -2019 for various IETE Awards including academic awards are as follows. Most of the awards, except for a few, will be presented during 62nd Annual IETE Convention scheduled to be held on 28th - 29th Sept 2019 at Ayodhya (UP), India. **Congratulations to all Awardees!**

IETE Main Awards

The awardees selected in the categories are:-

IETE - Ram Lal Wadhwa Award

Prof Swades Kumar De, IIT, Delhi

IETE - Hari Ramji Toshniwal Award

Dr Amit Laddi, CSIO, Chandigarh

IETE-Bimal Bose Award

Prof Sukumar Mishra, IIT Delhi

IETE-Prof K Sreenivasan Memorial Award

Dr Thoppil George Thomas, BITS Pilani-Dubai Campus

IETE-Prof SVC Aiya Memorial Award

Dr Vimal Bhatia, IIT Indore

IETE-B V Baliga Memorial Award

Shri Vipin Tyagi, C-DOT, Delhi

IETE – Bapuseetharam Award (Biennial)

Dr Ujwala Anil Kshirsagar, HVPM's College of Engineering and Technology, Amravati

IETE-N V Gadadhar Memorial Award

Dr (Mrs) G Indumathi, MEPCO Schlenk Eng College, Sivakasi

IETE-B R Batra Memorial Award

Dr Pradeep B Mane, AISSMS, IOIT, Pune

IETE-Brig M L Anand Award

Prof Subir Kumar Sarkar, Jadavpur University, Kolkata

IETE-Biman Behari Sen Memorial Award

Dr Jonathan Joshi, Vanmat Tech Pvt Ltd, Mumbai

IETE-Life Time Achievement Award

Prof S Narayana, CVR College of Engineering, Vastunagar, Hyderabad

IETE-Ranjana Pal Memorial Award

Dr S Raghavan, National Institute of Technology, Tiruchirappalli

IETE-Technomedia Award for Young Women in Engineering

Dr Kashmira N Kasat, Prof Ram Meghe College of Engg and Management, Amravati

IETE-Smt Triveni Devi Gupta Memorial Award

Prof N Sudha, SASTRA University, Thanjavur

IETE-Shri Devi Singh Tyagi Memorial Award

Shri P Balasubramanian, DRDO, Chennai

IETE-Shri P P Malhotra Memorial Award

Sipna College of Engineering and Tech, Amravati

The categories wherein none was recommended by the Jury members this year:

- IETE - Flt Lt Tanmaya Singh Dandass Memorial Award
- IETE - R S Khandpur Award
- IETE - Smt Manorama Rathore Memorial Award

The categories that received single nominations this year and were not considered:

- IETE-Lal C Verman Memorial Award
- IETE-Shri S N Mitra Memorial Award
- IETE-Corporate Award for Performance in development of software(MSME)

The categories that received no nominations this year:

- IETE-Corporate Award for Performance in Computer & Telecommunication Systems (**LE & MSME**)
- IETE-Corporate Award for Performance in Electronic Components (**LE & MSME**)
- IETE Corporate Award for Performance in Electronic Instruments and Instrumentation (**LE & MSME**)
- IETE-Corporate Award for Performance in Development of Software (**LE**)

IETE Best Papers' Awards given for Articles Published in 2018 IETE Journals

Awards	BEST PAPERS with name of Awardees
IETE SK Mitra Memorial Award	Analytical Surface Potential Modelling-Based Small Signal Analysis and RF Performance Characterization of DMG SOI MOSFET for Better RFIC Application by Tiya Dey Malakar, Partha Bhattacharyya and Subir Kumar Sarkar published in IETE Technical Review Vol 35 No 3, May-Jun 2018 issue.
IETE J C Bose Memorial Award	Design and Implementation of a Feedback Linearization Controlled IM Drive via Simplified Neuro-Fuzzy Approach by Rabi Narayan Mishra and Kanungo Barada Mohanty published in IETE Journal of Research Vol 64 No 3, May-Jun 2018 issue.
IETE M N Saha Memorial Award	A New Resistor less and Electronic Tunable Third-Order Quadrature Oscillator with Current and Voltage Outputs by Hua-Pin Chen, Yuh-Shyan Hwang and Yi-Tsen Ku published in IETE Technical Review Vol 35 No 4, Jul-Aug 2018 issue.
IETE K S Krishnan Memorial Award	Video Delivery Architecture for Hierarchical HetNet: HH-D2D Caching by Sachin Umrao, Mukesh Kumar Maheshwari, Navrati Saxena and Abhishek Roy published in IETE Technical Review Vol 35 No 5, Sep-Oct 2018 issue.
IETE CDIL Award for Industry	Aperture Dual-Band Dual-Polarized Planar Microstrip Antenna by B K Pandey, S B Chakrabarty and Rajeev Jyoti published in IETE Journal of Research Vol 65 No 4, Jul-Aug 2018 issue.
IETE Gowri Memorial Award	Levenberg-Marquardt-based non-invasive blood glucose measurement system by Jyoti Yadav, Asha Rani, Vijander Singh and Bhaskar Mohan Murari published in IETE Journal of Research Vol 65 No 1, Jan-Feb 2018 issue.
TWO Students' Journal Award	A Novel Method for Solving Simultaneous Equations in Boolean/Switching Algebra by Pramode Ranjan Bhattacharjee published in IETE Journal of Education Vol 59 No 1 Jan-Jun 2018 issue Modeling the Interaction of Electrodynamical Fields to Circuit Elements by Timothy M Minter published in IETE Journal of Education Vol 59 No 2, Jul-Dec 2018 issue

IETE Academic Awardees-2019

The IETE Academic Awards awarded to the AMIETE/DipIETE students for excellence in academics this year are as follows:

The categories that had winners this year were:

- **AMIETE Council Award-I** for securing the highest percentage with 6.5 GPA and above marks and completing Part-II of Section A in one attempt without exemptions.

DECEMBER 2018

AMIETE (ET) - MANISH KUMAR – 187483 GPA = 7.83 (under Current Scheme)

- **AMIETE Council Award-II** for securing the highest percentage with 6.5 GPA and above marks and completing Part I of Section B in one attempt without exemptions.

JUNE 2018

AMIETE (ET) - SOMOJU RAMA CHARY – 238273 GPA= 6.66 (under New Scheme)

- **AMIETE Council Award-III** for securing the highest percentage with 6.5 GPA and above marks and completing Part-II of Section B (except project) in one attempt without exemptions.

JUNE 2018

AMIETE (ET) - GAGAN LAL – 238267 GPA= 6.8 (under New Scheme)

- **DIPIETE Council Award-I** for securing the highest percentage with 6.5 GPA and above marks and completing Part I of Section A in one attempt without any exemption.

DECEMBER 2018

DIPIETE (ET) - MUKTIPADA MALLIK – 238522 GPA= 7.25 (under New Scheme)

- **DIPIETE Council Award-II** for securing the highest percentage with 6.5 GPA and above marks and completing Part-II of Section A in one attempt without any exemptions.

DECEMBER 2018

DIPIETE (CS) - PURNACHANDRA PANDA – 238216 GPA=6.5 (under New Scheme)

- **DIPIETE Council Award-IV** for securing the highest percentage with 6.5 GPA and above marks and completing Part-II of Section B in one attempt without any exemptions.

JUNE 2018

(DIPIETE CS) - ATHUL T S – 236277 GPA=7.5 (under New Scheme)

- The categories that had No Recipients this year in either of the semesters (June /Dec 2018) exams or in any streams except for the above mentioned, are as follows:-

ALCCS : No recipients.

AMIETE: No recipients in the following categories

- **Subramanian Thyagaraja Award.**
- **AMIETE Council Award-I**
- **AMIETE Council Award- II**
- **AMIETE Council Award-III**
- **Smt Radhabai Kapre Gold Medal Award**
- **Hari Mohan Memorial Award**
- **AMIETE- Gopal M Dandekar Memorial Award**

DipIETE: No recipients in the following categories

- **DIPIETE Council Award-I**
- **DIPIETE Council Award-II**
- **DIPIETE Council Award-III**
- **DIPIETE Council Award-IV**
- **DIPIETE Council Award-V**
- **DIPIETE-Gopal M Dandekar Memorial Award**

News from Centres

AHMEDABAD

The Centre observed **51st World Telecommunication and Information Society Day (WTISD)** jointly with IE(I), Gujarat State Centre & CSI Ahmedabad Chapter on the theme “Bridging the Standardization Gap” on 17th May 2019. It was also supported by BES & DA-IICT. **Shri HU Kalyani**, Chairman IEI, gave an insight on the role of IEI in the nation building. **Shri Sudhir Agarwal**, Centre Chairman, gave a brief introduction about IETE, CSI, BES, DA-IICT and their activities and technical contributions. **Dr Bharat Patel**, Council Member, IEI and Convener WTISD-2019 explained the theme. After his address **Shri Niraj Shah**, Hony Treasurer CSI, introduced the theme speaker-**Shri Shamik Joshi**, PWC India.

Shri VK Jain, Chairman, BES & Immdt Past Centre Chairman, introduced the Chief Guest- **Shri Nilesh Desai**, Distinguished Scientist and Assoc Dir, SAC, ISRO. In his address the Chief Guest explained about the ISRO's advance SATCOM achievements, NavIC Systems, Disaster Alert System- its working and advantages. **Shri GC Jain**, MD, MCBS, expressed his appreciation for the work done by ITU in Broadcast Industry in his address. Programme ended with vote of thanks by Er Shyam Varghese, Hony Secretary, IE(I).

A **Women Empowerment Program** under the umbrella of Digital India was conducted on 23rd Jun 2019. Expert lectures on “Recent Applications in Smart Mobile” & “Recent Banking System” were arranged by expert speakers, namely- **Dr Manisha Upadhyay**, Assoc Prof, Nirma University; **Smt Alka Shrivastava**, Social activist; **Shri Sudhir Agarwal**, Centre Chairman and **Shri R M Makwana**, Hony Secy. **Prof (Dr) Upadhyay**, while speaking shared her views on “Recent Applications for Smart Mobile”, and **Smt Alka Shrivastava** highlighted the latest trends in the banking system, including Internet banking through her talk. The Centre Hony Secretary, proposed the vote of thanks.

The Centre arranged the **1st तकनीकी चौपाल**-meeting on 7th Jul 2019, with an aim to gather members and discuss issues like developments in the field of science and technology, need for contribution from individual members, steps to be taken for the betterment of IETE



51st WTISD - 2019 celebrations by sister societies at the Ahmedabad

etc. Around eight corporate members including **Smt Smriti Dagur**, Immdt Past President IETE; **Shri Sudhir M Agarwal**, Centre Chairman; **Shri Chintan Bhatt**, Centre Past Chairman; Prof Hetal G Bhatt, Shri AB Shukla, Shri Siddhant Jain, Shri Mazaher Shaik, Shri CN Joshi present, had a meaningful discussions, which centered around- actual distance travelled by Chandrayaan I & II; creation of new folders in Android mobile; Mangalyaan; AC-DC motors/electric vehicle; E-Sim for Smart watch & Smart mobile; GPS on mode; Pollution; Solar System and Seminar on 5G Technology. All present participated in the technical / scientific discussions and shared information.

ALIGARH

- A one-day workshop organized on “**Fostering Internet for Women’s Empowerment**” was initiated with a welcome address by **Prof Zia A Abbasi**, Centre Chairman on 2nd May 2019. An overview of the programme was presented by **Dr Abdus Samad**, Hony Secretary. Speaking on the occasion as Chief Guest, **Prof (Mrs) Farukh Arjmand**, Dept of Chemistry, AMU, highlighted various applications of the Internet, helpful for women empowerment. She emphasized on the need for a high-level corporate leadership for taking care of gender equality, safety & well-being issues regarding women workers. **Dr (Mrs) Faiza Abbasi**, Asst Dir, UGC Human Resource Centre, AMU, the Guest of Honour, mentioned about important contribution extended by women in every facet of society, if they are given a just opportunity. She highlighted various Govt schemes meant for women empowerment. **Dr Anis Afzal**, Dir, Community College, AMU Aligarh, presiding over the function, emphasized on the need for overall improvement in the effectiveness of Internet working for enhancing skills. **Ms Mekhla Agrawal**, faculty, Fashion Design & Garment Technology, Community College, AMU, concluded the session with vote of thanks. Two technical sessions and one lab session were conducted with resource persons- **Prof Savita Gautam**, Women Polytechnic and **Mr Mohd Shoab**, Dept of CE, AMU.



Workshop on “Fostering Internet for Women’s Empowerment” in progress

- 51st WTISD** on “Bridging the Standardization Gap” was organized on 17th May 2019, wherein **Shri Ashok Kumar**, Dy GM, BSNL, Aligarh and **Shri Praveen Garg**, SDE, BSNL Aligarh, graced the event as the Chief Guest and a special guest, respectively and addressed the gathering. **Prof ZA Abbasi**, Centre Chairman and **Dr Abdus Samad**, Hony Secy were the other speakers on the occasion. **Dr Omar Farooq**, Prof & Chairman, Dept of Electronics, delivered the presidential address.

CHANDIGARH

- During the WTISD celebrations held on 17th May 2019, **Dr (Prof) Sushil Kumar Kaura**, Centre Chairman, welcomed the gathering and highlighted the background of the event in his address. The message from Secretary General ITU, was read out by **Shri Subhash C Jain**, Centre



Dignitaries on the dais during WTISD celebration

Hony Secretary. **Prof (Dr) Maitreyee Dutta**, HoD/CSE, NITTTR, Chandigarh, delivered an expert talk on “IoT Security Issues”. He explained how IoT devices become vulnerable to cyber attacks, about insecure communications, data leakages from IoT systems, susceptibility to malware and other abuses & potential for service disruption etc. **Dr Prasant Kumar Mahapatra**, Hony Treasurer, proposed vote of thanks.

- A five-day **Faculty Development Program (FDP)** on “Emerging Technologies in IT” was organized by CSE Dept, Chandigarh Group of Colleges - College of Engineering (CGCCOE) under the aegis of ISF during 27th -31st May 2019. The programme was inaugurated by **S Satnam Singh Sandhu**, Chairman, CGC; **S Rashpal Singh Dhaliwal**, President, CGC and **Dr Vikas Dhawan**, Dir Principal CGC College of Engineering. It was aimed at giving hands on experience on emerging technologies in IT & their applications. The welcome address was delivered by **Dr Vikas Dhawan** and **Dr Anuj Gupta**. **Shri Pankaj Palta** & **Shri Dishant Khosla**, faculty coordinators, introduced the theme and resource persons. The five-day programme started with detailed sessions on topics namely- Computer Vision using MATLAB followed by Networking, Angular JS, Python and IOT lectures each on next four days. These sessions covered a wide range of knowledge information including implementation of various technologies using various tools. The HoD,CSE, **Dr Anuj Gupta** appreciated the efforts made by coordinators and concluded the programme.

- A two-week computer programme on “**Computer Basic & Internet**” for women under IETE Women Empowerment Engineering Committee (WEEC) was conducted at the Centre during 27th May – 10th Jun 2019. It was inaugurated by **Prof (Dr) Sushil Kumar Kaura**, Centre Chairman and **Shri Subhash C Jain**, Centre Hony Secretary. Main focus was to give training to women in computer basics, applications of word processing, spread sheet package, presentation package (PowerPoint), **internet uses**, e.g. online payment of bills, recharge, internet banking etc. About 10 participants took the benefit of this training sessions.

CHENNAI

The Centre observed **51st World Telecommunication & Information Society Day (WTISD-2019)** on 17th May 2019 with around 75 members from IET, CSI, IEEE, BES and IE(I). While delivering the welcome address, **Shri Tata Sudhakar**, Centre Chairman, enlightened the audience on the significance of the day and outlined the history and development of World Telecommunication Union. **Shri S Ramaswamy**, Governing Council Member, read out the message received from Secretary General, ITU and also shared his views on the theme for the day. **Dr Swarna Ravindra Babu**, Immdt Centre Past Chairman, highlighted the role of ICT in “Bridging Standardization Gap”. Chief Guest **Shri PV Karunanithi**, Principal GM, Tamilnadu Telecom Circle,



IETE, IET, CSI, IEEE, BES and IE(I) together celebrated WTISD-2019

BSNL, Chennai, emphasized the role of ICT in R&D areas. Felicitations speeches were given by **Dr P A Manoharan**, Chairman IEEE Madras Section; **Er R Ramdoss**, Hony Secretary, IE (I); TN State Centre and **Dr D Dhanasekaran**, Chairman, IET, Chennai Network. Shri RPB Sundaram, Centre EC Member, proposed vote of thanks.

COIMBATORE

A **Faculty Development Programme (FDP)** was organized by **Dr S Balamurugan**, a member from the Centre, on “IoT to Power Systems” on 9th Apr 2019. **Shri Ranjith R**, AP/EEE, Amrita School of Engineering, Coimbatore, was the resource person. The topics covered in the programme were: Arduino for Current Transducer and Potential Transducer and Relay operation. About 10 faculty members from EEE Dept and other members from the Centre attended.

ERODE

During the celebrations of **51st WTISD-2019** on 21st May 2019, the Immdt Centre Past Chairman, Erode, **Dr G Murugesan**, welcomed the gathering and read out the message from ITU to the members. **Dr N Sathish Kumar**, HoD/ECE, Ramakrishna Engineering College, Coimbatore, presided over the function. A talk by **Dr Joseph Auxilius Jude**, Asst Prof, on the topic of the day, *i.e.* “Bridging the Standardisation Gap” was arranged for knowledge information of the members. Dr S Sasikala, Centre Hony Treasurer proposed vote of thanks.



IETE Erode Centre celebrating 51st WTISD-2019

A **Women Empowerment Programme** was organized on 29th Jun 2019 at ISF Kongu Engineering College. After the welcome address by **Dr D Malathi**, Centre Hony Secretary, the Chief Guest **Dr S Gayathri**, an Internationally certified Birth Professional, Garbh Rakshana, Perundurai, Erode, delivered a guest lecture on “Woman Safety and Personal Grooming”, which was well received. Vote of thanks was proposed by **Dr S Sasikala**, Hony Treasurer of the Centre.

GOA

A workshop coordinated by **Dr HG Virani**, Prof & Head and **Mrs Amita Dessai**, Asst Prof, was organized in association with Dept of ET, Goa Engg College, Goa during 27th Feb - 1st Mar 2019. Resource persons for the workshop were: **Shri Sandip Mone**, Proprietor of Autotech Private Ltd., **Shri Devendra Sutar** and **Ms Palhavi Kerkar** of ETC Dept. The topics covered in the **Session 1** of *first day* included-Role of PLC in automation, introduction to PLC hardware, architectural evolution of PLC, block diagram, ranges available, types of inputs & outputs, source sink concept and scan cycle execution. During **Session 2**-discussions held were on delta make programmable logic controller and its usage in monitoring industrial activities. WPLSoft Software was used for the purpose. Hardware PLC connections, connecting the input sensors and output devices were shown. On *second day*, **Session-I** comprised- PLC programming including concepts like latching, interlocking and jogging. The **Session-II** began with introduction of SCADA & its application in supervision and controlling of automation system with advantages like reduced time consumption, reduced human resource consumption, increased product/project revenue, greater accessibility(remotely), more security (implementation of user access levels), instantaneous alert on alarms or events and easy user interface for interaction. *Next day* the **Session I**, began with Delta DIAView SCADA and Wonder-ware in touch software, while **Session II** was devoted to students’ learning & helping them to create new SCADA applications, database of tag, editing graphic displays with animation, connectivity with PLC and troubleshooting the application. Students were given hands-on training experience for using hardware and software in the workshop.

HYDERABAD

- ISF Constituent Colleges Meet was conducted on 9th Feb 2019.
- An event on “**Technology4Democracy**” was conducted at IE (India), Khairatabad on 23rd Mar 2019, wherein issues like social media, subversion of democracy, Swecha and Free Software Movement of India (FSMI) were discussed and the participation was from the technical, academic community, Banking associations, Insurance sector etc. Speakers invited were: **Prof K Nageshwar**, **Ms Uma Maheswar Rao**, Film Director, **Y Kiran Chandra**, **Dr KS Rajan** and **Jwala Gutta**. Representatives from supporting organizations represented their demands through common signed petition to Election Commission of India.
- The Centre conducted a three-day **Faculty Development Programme (FDP)** on “Communication System Modeling with MATLAB & Wireless Communication System Design with MATLAB and Simulink” for faculty members during 1st-3rd Apr 2019 at ECE Dept of G Narayanamma Institute of Technology and Science (for women), Hyderabad.
- The Centre organized a lecture on **Electronic Voting Machine (EVM) in the festival of Democracy** on 30th Apr 2019. Speaking on the occasion the Guest speaker, **Dr TH Chowdary**, DFIETE, Dir, Centre for Telecom Management & Studies, deliberated on equipment’s operability, ruggedness and reusability. A wide range of issues, *viz.*, technical security, administrative protocols and procedural safeguards, ensuring integrity, non-temperability and credibility of EVMs were taken up. The speaker mentioned that EVM has gone through a long journey of evolution amidst challenges and has emerged as an effective machine over the years.

The Centre along with the Centre for Telecom Management & Studies (CTMS) celebrated **51st WT&ISD** and **15th Dr T H Chowdary – CTMS Endowment Lecture** on “Digitalization of the Operations of India Post” on 17th May 2019 in association with the IE(I), Khairatabad, Hyderabad. **Dr TH Chowdary**, Past President IETE, graced the event as the Chief Guest. **Er B Brahma Reddy**, Council Member IE(I), delivered the welcome address. Opening remarks were made by **Dr G Rameshwar Rao**, Chairman, IE (I) & TSC. The address of **Er K Subbi Reddy**, Member IE (I) & TSCC, was on the background of **WT&ISD** day. **Prof A Ravi Kumar**, Centre Chairman, enlightening about the 15th Dr TH Chowdary Endowment Lecture, introduced the speakers, namely- **Shri Tej Paul Bhatla**, Vice-President, TCS New Delhi and Head, Public Services (Govt) Business Unit; **Shri M P Vijaya Kumar**, CFO, Sift Technologies Ltd, Chennai and **Shri C R Rao**, CTO, Sify Technologies Ltd, Chennai. The Chief Guest was felicitated on the occasion. **Smt A Sujata**, Secretary, CTMS, also participated. Vote of thanks was proposed by **Er T Anjaiah**, Hony Secretary, IE (I) and was followed by the National Anthem, concluding the programme.



Padmashree Dr T H Chowdary, DF and Past President IETE being felicitated by IETE Hyderabad Centre on the occasion

KANPUR

The Centre celebrated the **51st WT&ISD- 2019** on “Bridging the Standardization Gap” jointly with the IEEE UP Section and IE(I), Kanpur Centre on 17th May 2019. The Chief Guest **Prof Abhay Karandikar**, Dir, IIT Kanpur speaking impressively on “Frugal 5G: Towards Affordable Rural Wireless Broad”, he outlined the various recent developments in this domain. He lamented that a large part of the population was still being deprived of broadband connectivity, regardless of burgeoning growth in cellular wireless communications in recent years. Talking of challenges, he referred to problems like high capital and operations expenditure with low Average Revenue Per User (ARPU), lack of affordable backhaul, energy cost, which is worsened by lack of reliable power supply and geographic accessibility including issues such as right of way. He emphasized on the need of re-thinking on developing next generation wireless system for connecting the unconnected world. According to him, mobility was not a major driver for designing such systems, but fixing primary broadband access was more important. He mentioned that a simplified IP based network architecture with dynamic spectrum sharing and a low cost wireless backhaul could set the vision of “Frugal 5G” for connecting the unconnected. This paradigm would open up several directions for technology solutions. These include dynamic spectrum sharing for multi-operator co-existence, scalable control and management of such access and middle mile network through software defined network (SDN) controller. The other speakers included **Prof SN**

Singh, Vice-Chancellor, MMMUT, Gorakhpur; **Er CP Varma**, Centre Chairman and **Prof J Ramkumar**, Chairman IE (I) Kanpur Centre. Vote of thanks was proposed by **Dr Pragya Agarwal**, Hony Secy.



IETE, IEEE & IE (UP Section) celebrated the event together

An expert lecture by **Er A N Mulla**, was organized on **Energy Healing** on 28th Jul 2019. In his talk, the speaker shared some energy healing techniques with the audience for releasing negative energy from one’s mind & body. Talking of one’s thoughts, feelings and emotions, he advocated not underestimating the power we all have within, which can have an impact on ones’ energetic and emotional wellness and can take our lives to a new direction. He opined that energy healing powers have non-invasive, non-toxic way of clearing out such negative & toxic energies from the body for lasting relief. **Er CP Varma**, Centre Chairman and **Dr (Mrs) Pragya Agarwal**, Centre Hony Secretary, were also present.

KOCHI

An **Industry-Interaction Programme** for ISF staff co-ordinators with BSNL was arranged by the Centre on 8th Jul 2019. The ISF co-ordinators participating from various Engg colleges were: Ms Manju Thomas T, Viswajyothi College of Engg & Tech, Vazhakulam; Ms Anjana S, Adi Shankara Institute of Science & Tech, Kalady; Ms Ann James, MGM College of Engg & Tech, Pampakuda; Ms Smitha. KMEA Engg College, Edathala and Shri Riboy Cheriyan, Saintgits College of Engg & Tech, Kottayam. The co-ordinators interacted with BSNL Training Officers, who suggested inclusion of few relevant topics into the curriculum for the benefit of the students.



ISF Coordinators participated at Industry-Interaction Programme

Another **Industry-Interaction and Familiarization Programme** for ISF staff coordinators was arranged with Kochi Metro Rail Ltd (KMRL) at the Muttom Yard Control Centre, KMRL on 24th Jul 2019. About 14 staff coordinators attended the programme from various engg colleges, viz. Cochin University of Science & Technology; KMEA Engg College; Rajagiri School of Engg & Tech; Viswajyothi College of Engg & Tech; MGM College of Engg & Tech; Mar Baselious Christian College of Engg & Tech; SCMS School of Engg & Tech; Adi Shankara Institute of Engg & Tech; Model Engg College. During the morning session KMRL engineers took classes related to Electric Traction, Signaling and Communication, DC/AC Power Conversion and Distribution etc. In

the afternoon, the staff coordinators were taken around the Metro Yard, where they were shown the operation and the control centre. Further, the substations, rectifier units and the train maintenance shop were also exhibited. It was very educative and informative programme for the staff coordinators. KMRL expressed their willingness to arrange such meaningful programmes for the staff and students of engg colleges in future as well.

MHOW

A visit was organized for students and faculty members of Sage University, Indore to Military College of Telecommunication Engineering (MCTE), Mhow, on 27th Apr 2019. On arrival, **Lt Col A Bhardwaj** welcomed the guests. Various labs were shown to the visitors which include: Convergence Switching Technology Lab; Digital Communication & Digital Signal Processing Lab; OFC Lab; Mobile Communication Network Lab; Satellite Lab and Thin Film Lab. **Brig KS Dhankhar** and **Maj Sumit Singh** briefed the students on lab infrastructures of Raman Block. Students also visited AI & Robotics Lab; Data Centre Lab; Computer Aided Training Lab. Students were given the opportunity to see the Cadets Training Wing (CTW) and various training facilities including the Motivation Hall of CTW.



Students and Faculty Members of Sage Univ, Indore, visited MCTE, Mhow

The Sub-Centre organised a lecture on “5G Technologies” on the occasion of 51st World Telecommunication & Information Society Day on 17th May 2019, which was delivered by **Prof (Dr) Swaminathan R**, IIT at Iyappa Hall, MCTE, Mhow.

MUMBAI

On 17th May 2019 the Centre celebrated 51th World Telecommunication and Information Society Day (WTISD) jointly with Navi Mumbai Centre, BES(I) Mumbai Chapter, IEEE AES/COM India Chapter, and IEEE COM/SOC Bombay Chapter on the theme “Bridging the Standardization Gap”. Dignitaries present during the celebration were: **Shri MS Thomas**, Adtl DG, Doordarshan & **Prof (Dr) JW Bakal**, Vice-President, IETE; **Shri Abhay Phansikar**, keynote speaker; **Dr SS Thakur**, Centre Chairman; **Dr B U Rindhe**, Chairperson, Navi Mumbai; **Shri SC Khasgiwal**, Chair of BES(I) Mumbai Chapter and **Mr Q Bakir**, Chair of IEEE (AES/COM) India Chapter. The introductory remarks during the opening session were delivered by **Shri Parag Walinjkar**, Centre Hony Secy. The welcome address was given by **Shri SC Khasgiwal**. **Dr SS Thakur** read out the message of ITU. Later, **Dr BU Rindhe**, introduced the Guests of Honour- **Shri MS Thomas** and **Prof (Dr) JW Bakal** to the audience, who were felicitated later in the programme. **Shri Abhay Phansikar**, keynote address was on “LoRaWAN Standards” with citing of various case studies. Vote of thanks was proposed by **Shri PS Khurana**.



Dignitaries on the dais during WT&ISD-2019 celebration at IETE Mumbai Centre

The Centre conducted Oscillations Programme on 8th Apr 2019 at ISF Don Bosco Institute of Technology (DBIT), Mumbai. **Ms Poonam Chakraborty** delivered the welcome remarks. **Dr Sanjay Thakur**, Centre Chairman, **Dr Shivaji Ghungrad**, Centre Vice-Chairman and **Prof Suvarna Bhise**, ISF Co-ordinator, spoke on the IETE and its various activities. **Dr Prasanna Nambiar**, Principal DBIT in her speech encouraged the winners and passed on her good wishes for their future. Others present were-**Dr Sudhakar Mande**, Centre Ex Chairman and **Ms Ashwini Kotrashetti**, HoD-EXTC, DBIT.

MYSORE

The Centre organized an IETE National Level Student Technical Paper & Model Contest on 4th May 2019. **Dr Bindu A Thomas**, Prof & HoD/ECE, Vidya Vikas Institute of Engg and Tech, Mysuru, graced the event as the Chief Guest. **Prof M J Sampath Kumar**, Centre Chairman, presided over the function. The event was convened by **Dr S R Bhagyashree**, Centre Hony Secy, Prof/ECE, ATMECE, Mysuru and **Dr Parameshachari B D**, Centre Co-opted Member, Prof & HoD/TCE, GSSSIETW, Mysuru. Others attended the event were: **Shri S M Manjunath**, Hony Treasurer; EC members and co-opted members of the Centre. The event attracted over 100 project abstracts. The project that won the 1st prize, was titled “Visible Light Communication based file delivery System” by **Basavaraj R Sunagad**, **Manav Gurumoorthy**, **Ashwin T R**, **Akhilesh Guddad** from Dept of ECE, the National Institute of Engg, Mysuru. In Student Technical Paper presentation, the 1st prize for the best paper was won by **Girija S T**, **Chandana Bhat**, **Srinivasa M G**, Dept of ECE, Maharaja Institute of Technology, Thandavapura.



National Level Student Technical Paper & Model Contest conducted at the centre

51st WTISD was celebrated in association with Computer Society of India, Mysore Chapter on 17th May 2019. The Chief Guest **Dr M N Jayaram**, Assoc Prof/SJCE, Mysore, in his address explained about ITU standards on “Mobile Communication”. Different architectures of

mobile communication, frequency spectrum, modulation techniques used and the frequency spectrum allocation for text, messages, videos and standards of GSM like 1G, 2G, 3G & 4G were also described. Talking of mobile hazards, he cautioned on its continuous use beyond half an hour. He urged for a judicious usage of mobiles especially by the children. **Smt Aruna Devi**, Chairman, CSI Chapter Mysore, also spoke on “Mobile Communication Hazards on children”. She accentuated the need of diverting minds of the children towards important activities like sketching, drawing, reading, outdoor playing etc. **Prof Veerendra Kumar**, former Chairman, CSI Chapter Mysore, threw light on the significance of the World Telecommunication & Information Society Day. Presidential address was delivered by **Prof M J Sampath Kumar**. The notables present on the occasion were: **Dr H S Shivram**, founder IETE Chairman; **Dr S R Bhagyashree**, Hony Secy; **Prof C R Natraj**, former IETE Chairman; **Prof M G Srinivasa**, Convenor & HoD/ECE, MIT Thandavapura. On the same day a workshop on **Robotics using FIREBIRD-V Series Kits**, was arranged in association with Maharaja Institute of Technology (MIT), Thandavapura, Mysore. The Chief Guest **Prof (Dr) V Seshadri**, IIT Delhi, while speaking on the topic laid emphasis on the applications of robots in industry especially in automobiles, manufacturing plants, processing industries etc. The Guest of Honour **Dr H S Shivram**, Centre founder Chairman, highlighted the design of Robotic applications and its importance in industry. **Prof C R Natraj**, Immdt Centre Past Chairman, delivered the presidential address. Dr S R Bhagyashree, Shri S M Manjunath, Prof M G Srinivasa were present. Resource persons **Shri Ravi Kumar R** and **Guruprasad A M** from ECE Dept, gave training on the fundamentals of Arduino Microcontroller programming. Students gained programming skills and knowledge on robot working principles. Students attending the sessions were from MIT Thandavapura; ATME College of Engg and GSSS College of Engg for women. MIT Thandavapura established a “E-Yantra Robotics Lab” in association with IIT Bombay under MHRD Program.

Another workshop on “**IOT and its Applications**” was conducted on the same day. The resource person **Smt Sharmila B S**, AP/ECE/NIE, Mysore, explained the basics of IOT and MSP-430 Microcontroller to the students and gave practical experience for developing simple IOT applications using Amazon server. **Prof M J Sampath Kumar** delivered the presidential address during the session. Dr H S Shivram, founder IETE Chairman; Dr S R Bhagyashree, Hony Secy; Prof C R Natraj, former IETE Chairman; Prof M G Srinivasa, Convenor & HoD/ECE, MIT Thandavapura also attended.

NAGPUR

- As per its past practice, IETE Nagpur Centre organized an oration programme on 2nd Apr 2019 in the memory of reputed scientist/academician **Dr P K Kapre**, Past President IETE. **Prof J S Gawai**, ISF Coordinator, KDK College, Nagpur, introduced the speaker of the day to the audience. **Prof (Dr) Urmila Shrawankar**, G H Raisoni College of Engineering, Nagpur was the keynote speaker for this year’s Memorial Lecture. She spoke on the **Cloud based Google Services**. **Prof (Dr) Sunanda Khandait**, KDK College, Nagpur, presided over the function. Audience was illuminated on the great work and contribution of Dr PK Kapre and the cause of celebrations. Ms Shrayu Pazare, KDK College/ETC proposed vote of thanks.

- The Centre and Nivrutta Abhiyanta Mitra Mandal jointly celebrated **51st WT&ISD-2019** on 21st May 2019. **Er Ashish Sanghi**, ITS, Addl

Chief Project Manager (Telecom), Metro Rail Projects, Nagpur was the Chief Guest and keynote speaker on the occasion. The welcome speech was made by **Dr RL Shrivastava**, Chairman IE (I). **Er AR Sawatkar**, Centre Past Chairman and Convener of the program briefed about the history and importance of the day and conveyed ITU’s message. Introduction of the Chief Guest was given by **Dr BP Joshi**, Centre Chairman. **Er Ashish Sanghi**, the Chief Guest, highlighted the important role of telecommunications in Metro rails and other systems and elaborated on the theme topic of “Bridging the Standardization Gap”. Dr PD Khandait, Hony Secy, Er MD Date, Coordinator NAMM, Dr Jyoti Rothe Convener IE (I) were present during the event. Prof Harshwardhan Kharpathe, co-opted member coordinated. **Dr MS Kadu**, Hony Secretary, IE (I) proposed vote of thanks.



Centre Chairman Dr BP Joshi addressing the audience

NASHIK

- World Telecommunication & Information Society Day** was celebrated on 17th May 2019 in ET Dept at KK Wagh Institute of Engineering Education and Research, Nashik, with dignitaries, namely- **Dr DM Chandwadkar**, Centre Chairman & HoD/ET; **Mrs Apurva Jakhadi**, Space Educator; Dr SS Morade, Sub-Centre Hony Secretary; Dr SA Patil; Prof RV Chothe; Prof Jagtap and other members of the staff. The welcome address was delivered by Dr DM Chandwadkar. Later the message from ITU was read with the preamble on the theme “Bridging the Standardization Gap”. The website www.nashikiete.org of IETE Nashik Sub-Centre was launched. Mrs Jakhadi elaborated on the programmes that were to be implemented by IETE.

- A one-day National Conference on “**Sensing, Communication & Networking**” (**IETE NCSCN 2K19**) was inaugurated on 19th July 2019 at Dept of E&TE, SVIT Nashik. The dignitaries present on the occasion were: **Dr S Pal**, Former Sr Advisor, ISRO, Past President IETE & **Shri Annasaheb Mhaske Patil**, Vice Chairman PRES Loni, as Chief Guests and **Prof S K Khedkar**, IETE Zonal Mentor (West Zone) & **Prof R K Vyas**, Co-Chairman, TPPC, as Guests of Honour. Other distinguished members present were: **Prof (Dr) KTV Reddy**, President IETE; the Governing Council Members of IETE; **Dr Sunil Morade**, Sub-Centre Hony Secretary and **Shri Bharat Ghogare Patil**, Jt Secretary, PRES Loni. The inaugural speech was delivered by **Prof SK Khedkar**. **Prof RK Vyas**, highlighted the “Trends in Communication Technology” in his address. The keynote address was by **Dr S Pal** on the theme of the conference. **Shri Annasaheb Mhaske Patil** in his talk advised creating more of awareness among the upcoming student community and researchers by showcasing impending innovative trends. **Prof (Dr) KTV Reddy** addressed the gathering & highlighted the insights of PRAVARA brand. Inaugural session concluded with vote of thanks by Mrs Apurva Jakhadi, Past Hony Secretary of the Sub-Centre.



Guests & Delegates at National Conference on “Sensing, Communication & Networking” (IETE NCSCN 2K19) at IETE Nashik Centre

The afternoon session saw talks from distinguished IETE Governing Council Members. **Dr D C Pande** from Bangalore shared his views on the topic, “Indian Scenario on Radar Technology”; **Prof S V Bhaskararao** from Hyderabad, gave an overview on “Sensing Technology”; **Shri Kartik Parikh** from Mumbai, gave an insight on “Performance monitoring & Networking” and **Prof (Dr) J W Bakal**, Vice-President IETE, from Vashi, Navi Mumbai, threw light on “Sensing Technology” vide his address. This was followed by the presentations from students on their research topics. The day ended with a cultural programme organized by the students of SVIT for the guests & IETE members.

PALAKKAD

• **51st World Telecommunication & Information Society Day** was celebrated together with IE (I) Palghat Chapter on 17th May 2019 and it was presided over by **Er K Unnikrishnan**, Chairman, IE(I)



Dr S Sindhu, HoD/CS, NSS College of Engineering Palakkad, making a point

Palghat Chapter. Welcoming address was given by **Dr V Devi**, Centre Chairperson. **Shri Beji K Mathew**, Hony Secy, read out the ITU message for the day. Bridging the Standardisation Gap, was the topic on which keynote address by the Chief Guest **Dr S Sindhu**, HoD/CS, NSS College of Engineering Palakkad, was based. She explained the necessity of standardization in communication field and outlined the various technical aspects starting from 2G to 5G in her address. Er A Ramesh, Hony Secy, IE (I), Palghat Chapter proposed the vote of thanks.

• The Centre for the first time in its history, organized a three-day free **Summer Student Empowerment Programme** from 27th-29th May 2019 for the students of 10-15 years of age. Hands on training in basic electronics, lab equipment and tools were given as main program contents. Thirty students from different schools of Palakkad district participated. **Shri P Suresh**, Centre Manager, took the theory & practical classes. The key speakers in the valedictory function were: **Dr V Devi**, Chairperson, **Shri CK Haridas**, GC Member, **Shri Beji K Mathew**, Hony Secy and **Prof N Leena**. Vote of thanks was proposed by Smt Manju KR, EC Member.

PUNE

• A Project competition-**IETE-Innovation-2019** was held at JSPM's Bhivarabai Sawant Institute of Technology and Research, Wagholi, Pune on 30th Apr 2019. Around 124 student groups participated in the competition. **Shri Sanjay Pekam**, Dir (Projects) Cognizant, Pune, graced the event as the Chief Guest. **Prof (Dr) Yogesh S Angal**, Centre Vice-Chairman, delivered the welcome remarks. Dignitaries present included: **Dr VM Kayande**; **Dr SN Patil**; **Shri GK Dawara**, Centre Immdt Past Chairman; **Shri KR Shende**, Centre Chairman; **Shri Atul Joshi**, Hony Treasurer; **Dr RD Kharadkar**, Hony Secy; **Prof SK Khedkar**, Mentor West Zone; **Prof (Dr) SR Jog**; **Prof (Dr) PH Patil**; **Dr Mohini Sardey**;

HoD/E&TC, AISSMS; **Prof Sagar Vanarase** and **Dr Yogesh Angal**. Speaking on the occasion, the Chief Guest, **Shri Sanjay Pekam**, stressed on the need for positive thinking & self-employability.

- **Dr KR Phadke Memorial Award lecture** was arranged at JSPM's Bhivarabai Sawant Institute of Technology and Research, Wagholi, Pune on 30th Apr 2019. Speaking on the occasion, Centre Chairman, **Shri KR Shende**, informed the participants on the contribution of late Dr KR Phadke to the fraternity. He informed that for the year 2018, the award was being conferred on **Dr Parag Arun Kulkarni**, CEO and Chief Scientist iKnowlation Research Labs. Dr Kulkarni's address was centered on **Chasing Dreams in midst of uncertainty**, which was well received by the present members and participants. **Dr TK Nagaraj**, Principal JSPM's Bhivarabai Sawant Institute of Technology and Research Wagholi, Pune, was the Chief Guest. Vote of thanks was proposed by **Shri KR Shende**.



The Awardee- Dr Parag Arun Kulkarni being felicitated on the occasion

- The Centre and IE (I), Pune Local Centre, together celebrated **51st World Telecommunication & Information Society Day (WTISD-2019)** on the selected theme for the day "Bridging the Standardization Gap" on 17th May, 2019. **Shri Gaurav Saxena**, Principal Consultant Infosys, Pune, graced the occasion as Chief Guest. **Prof (Dr) GS Mundada**, Convener, delivered the welcome note. The Centre Chairman, **Er KR Shende**, in his address, talked about the activities of IETE. **Dr RD Kharadkar**, Hony Secy read out the message of Secretary General, ITU. **Shri KK Ghosh**, Chairman IE(I). PLC; **Dr Dina Kholkar** Chairperson, IEE Pune Section; **Prof SK Khedkar**, Mentor Western Zone; **Prof (Dr) MA Joshi**, Chairman, IET, Pune Network; **Prof Aradhana Deshmukh**, Hony Secretary IE (I), PLC; **Dr Amar Buchade**, Secretary, IEE, Pune Section; **Dr D N Sonawane**, Secretary, IET, Pune were all present on the occasion. **Prof Ashok Deshpande**, Faculty, University of California & University of New South Wales delivered a talk on "Sustainable Development Goals to Bridge the Standardization Gap", which was appreciated by all.

- The Centre & TESA (Telecom Engg Students Association) Students Chapter together organized an Installation ceremony of new session at Dept of E&TC, ISF Dr DY Patil Institute of Technology, Pimpri, Pune on 3rd Sep 2019 in presence of **Dr A N Tripathi** (IFS), Addl Principal Chief Conservator of Forest (Rank of Addl Secretary), Govt of Maharashtra and other dignitaries. Certificates were distributed to the students. The programme proved to be a good encouragement for the students.

RAJKOT

51st World Telecommunication & Information Society Day was observed by the Centre on 19th May 2019 on the ITU selected theme "Bridging the Standardization Gap". **Er C M Devani**, IBS (Retd) Centre

Founder Chairman in his welcome address greeted the keynote speakers, invitees, members & students and highlighted the history of World Telecommunication & Information Society Day. **Er V K Kathiriya**, Former Asstt Director, Doordarsan Kendra Rajkot and Member IETE, read out the messages from ITU Secretary General and President IETE, which were released for the occasion. Key-note talks on the above mentioned theme were delivered by **Dr Ravirajsinh Vaghela**, Asstt Prof, MCA Dept, RK University, Rajkot and **Shri Milan Bavlecha**, Data Analyst Stampst Pvt Ltd. The vote of thanks was proposed by **Er Chauhan Pratik**, AE, AIR Rajkot and EC member.



IETE Rajkot Centre celebrated 51st WT&ISD - 2019

SIVAKASI

The Sivakasi Centre celebrated the **51st World Telecommunication & Information Society Day** on 17th May 2019 at Mepco Schlenk Engineering College Campus, Sivakasi. **Dr T Sabapathi**, Hony Secy delivered the welcome address. **Dr S Syed Ameer Abbas**, Centre Vice-Chairman; **Dr S Anand**, Prof/ECE; **Shri V Arun Raj**, AP/ECE; **Shri S Vijay Gokul**, AP/ECE, Mepco Schlenk Engineering College, graced the occasion as guest speakers. **Dr G Indumathi**, Centre Chairperson read out the message from the ITU Secretary General, on the occasion. **Dr S Anand**, as a guest speaker explicated on the issues of ITU standards, Electromagnetic Compatibility, Electromagnetic Interference and emphasized on the need for interoperability. **Shri V Arun Raj**, AP/ECE, expanded on the topic of day to day life activities giving simple examples. **Shri S Vijay Gokul**, AP/ECE, recounted the standards starting from 0G, 1G to 5G, through interesting videos. Vote of thanks was proposed by **Shri M Davidson Kamaladhas**, Hony Treasurer of the Centre.



IETE Sivakasi Centre celebrating 51st WT&ISD - 2019

VADODARA

- The Centre organized a workshop with **Prof Dhara P Patel** on **CMOS Integrated Circuit Design using Cadence Design Flow** on 6th Apr 2019 in conjunction with the ISF, Charusat.



Members IETE Vadodara Centre during 51st WT&ISD celebration

- Commemorating the **51st World Telecommunication and Information Society Day 2019** on 17th May 2019, **Dr Vijay K Shah**, Centre Chairman, elucidated the theme “Bridging the Standardization Gap”, through his audio visual presentation. One of the causes of the disaster of the Titanic was linked to the inaccessibility of Standards in Communications at that time. This interactive session was attended by Dr RC Desai, P V Khubalkar, Ex GM, ONGC, Sh KP Gupta, Sh RP Gupta, Prof BP Dave, Ex Principal Polytechnic, MSU Vadodara and others. Vote of thanks was proposed by Shri Yashpal Goyal, Centre Hony Secretary.

YAVATMAL

On the occasion of **IETE Student Day**, the Sub Centre conducted a **Quiz competition** at Jawaharlal Darda Institute of Engineering and Technology, Yavatmal on 4th Feb 2019 with active participation of around 47 student members.

Making Next Generation aware about Mission Chandrayaan 2



The Moon is the closest cosmic body to the mother earth which has been the attraction of not only children but also elders, lovers and scientists. The Lunar missions have also become promising test bed to demonstrate technological capabilities of necessary for deep-space missions.

So, what makes Chandrayaan 2 mission very special? There are four special features of this mission. Firstly, it is ISRO's the maiden space mission to do landing on the Moon's South polar region, Secondly, it is our first to attempt do a soft landing on the lunar surface with indigenously developed technology, Thirdly, we are going to use all indigenously developed instruments to explore the lunar terrain and the fourth special thing is home-grown and mastered technology of Geosynchronous Satellite Launch Vehicle Mark-III (GSLV Mk-III) technology. The spacecraft has carried three modules, an Orbiter, a Lander called 'Vikram', and a Rover called 'Pragyan'. The GSLV Mk-III, is a three-stage spacecraft, which has S200 solid rocket boosters, L110 liquid stage, C25 upper stage and Orbiter will carry 'Chandrayaan 2' to its designated orbit. Chandrayaan-2 shall have 13 payloads out of which eight will be on the Orbiter, three will be on the Lander, two

on the Rover and one passive experiment unit from the National Aeronautics and Space Administration (NASA) of the USA.

In order to make the next generation aware of complexity of the systems involved and make them understand about the mission i.e. how and why it was taken up and explain to them about the frugal innovation and most important make them feel proud about our nation and Indian space research organization; I went to many schools to deliver tech talk on Chandrayaan 2 mission titled 'Explore the Unexplored'. The awareness was built up in the school children and their curiosity was satisfied through the question and answer sessions immediately after my tech-talk. So far I have reached to more than 700 students through four sessions held so far.

I also published an article in 'The Hitavada', the English daily at Nagpur on Mission Chandrayaan 2. In order reach out common people I gave interviews on UCN TV channel and on Radio 106.5 FM 'Gyan-Wani Channel'. The video of my interview is available on YouTube channel which has reached to more than 300 hits.

– by **Dr Bharatbhushan Joshi**, Chairman, IETE Nagpur Centre & Principal, Cummins College of Engineering for Women, Nagpur

62nd Annual IETE Convention (AIC 2K19)

& International Conference

on Industry 4.0

28th and 29th Sept 2019 at Institute of Engineering & Technology, Dr Rammanohar Lohia Avadh University, Ayodhya, UP

OTHER PROGRAMMES

51st Bhabha Memorial Lecture and
42nd Ram Lal Wadhwa Award Lecture

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News from IETE Professional Activity Centres (PACs)

PAC-AUSTRALIA

The 16th IETE Australia Symposium and Annual Day 2019 was organized on 28th Jul 2019 at Golden Chariot Restaurant, Maddington, Australia. This gave the management a chance to assess their growth, shortfalls and provided a platform for better improvement, involving everyone. The members and experts who attended the symposium included: **Atul Garg**– Chairperson PAC and Ms Poonam Garg; Ram and Mrs Hemmige; Suman

Runner Up and for the Best Performance Awards - **Mr Shyamjith Nair** (for Tabla); **Mr Sharad Sharma** (for Guitar); **Ms Sonal Bhushan** (for singing) and **Mrs Ramona Chauhan** (for singing & coordinating).

The Chairman, in his speech briefly narrated the major accomplishments during the past couple of years. In fact IETE PAC, Australia is continuously striving to scale up and benchmark itself with best practices of IETE. It follows a dynamic policy that



Participants during 16th IETE Australia Symposium and Annual Day 2019 at Australia

Dewan (on Skype); Ramona and Vishal – Cultural coordinator; Rajpal Kapoor; Pankaj Patro; Prashant Singh; Pramod Kapoor (Chairperson, Awards Committee); Jag Singh; Mandeep Singh; Raj Bhasin; Hemantakumar Tankala; Anuradha; Sandeep Sharma; Sai Kolachana; Vikram Birajdar; Balli Singh and Simran; Yash Pal & Mrs Sharma (on Skype); Davishi & Yogesh; Ajit Abhyankar (on Skype); Jagpreet & Chhavi Walia (Committee member & website host); Sudheer Vashisht and John Bose. Other members present were: Shyamjit Nair, Sharad Sharma, Sonal Bhushan, Ramona, Firoz and Mahrukh Pestonji.

Two technical presentations given on the occasion include: “Technologies to Invest in” by **Shri Tarun Dewan**; “Industrial Applications of IoT (Internet of Things) with Case Studies” by A&A Teleservices - **Jag Singh, Mandeep** and **Pramod** and a backup presentation from Chairman’s Basics Series “Cyber Security Challenges for Australia” by **Atul Garg**. The sessions were meaningful and well received.

The programme witnessed an award ceremony session as well that included the awardees selected by the Awards Committee in various categories for the year 2018-19, viz. **Siddharth Malani** for the Maximum Presentations given by a member at Symposium; **Prashant Singh** and **Tarun Dewan**- as Runners Up; **Hemant Tankala**- for the Highest Attendance of a member at Symposium -; **Pankaj Patro**- as Runner up; **Ramona Chauhan** – for the Most active committee member; **Jagpreet Walia**- as

entails holding conferences and technical talks in the light of the latest technology trends and industrial needs by a team of experts and keeping their membership open to all.

PAC-TRIVANDRUM- NAGERCOIL

• The **IETE -Trivandrum- Nagercoil PAC**, organised a six-day **IOT Inplant Training Course** on “Emerging Technologies” during 24th-29th Jun 2019 in coordination with Riyasaa Labs-Nagercoil for the students of Govt Engg College lead by **Dr S Arumuga Perumal**, and **Er M Arun**, Riyasaa Labs, Coimbatore. The students were given training on basics, advanced concepts and methodologies of IOT to design, build and deploy solutions, along with holding discussions on various technologies and protocols including new generation IOT-friendly applications and physical layer protocols. Case studies were shared to ensure that the candidate develops an ability to work through practical real life scenarios. The mini projects were given in the lab to work on various taught subject topics. Presiding over the session on concluding day, Dr S Arumuga Perumal addressed and distributed the certificates to the participants. The welcome address was delivered by **Er V Muthum Perumal**, Hony Secretary, Kanyakumari Local Centre. Vote of thanks was proposed by **Er V Sivathanu Pillai**, Chairman, Kanyakumari Centre.

• The **World Telecommunication and Information Society Day-2019** was celebrated on 15th May 2019, which began with the song “Tamil Thai Vazhthu”, a song played in the beginning of



WT&ISD celebration at PAC-Trivandrum- Nagercoil

every event organised by the Government of Tamil Nadu. **Dr S Arumuga Perumal**, Chairman, IETE Nagercoil PAC, welcoming the keynote speaker **Shri R Saji Kumar**, ITS, Gen Manager, BSNL, Nagercoil, shared his view points on the topic with the gathering. **Er V Sivathanu Pillai**, Chairman, IE (I), Kanyakumari Local Centre, in his address, emphasized on the need for bridging the standardization gap between old and new generation. The keynote speaker, **Shri R Saji Kumar**, highlighted the growth of communication skills in recent times, while tracing its origin from old era to new. He talked about the underway projects on 4G at BSNL, which he said were almost at the verge of completion. The need and importance of 5G were discussed including Internet of Things (IOT) and its role in 5G telecommunication technology. Concluding, he underlined the significance of convergence of technologies in bridging existing standardization gaps in the system. Felicitation addresses were given by **Er G Sivasubramanian**, Past Chairman, Kanyakumari Centre and **Dr M Marsaline Beno**, Dean, St Xaviers Catholic College of Engineering, Chunkankadai. Vote of thanks was proposed by

Er V Muthum Perumal, Hony Secretary, Kanyakumari Centre followed by the National Anthem.

- One-day seminar in coordination with IE(I), Kanyakumari Local Centre (KKLC) and Riyasaa Labs Nagercoil was conducted on “**Deciphering Internet of Things**” on 3rd Aug 2019, in which the welcome address was delivered by **Er V Sivathanu Pillai**, Chairman IE(I). He brought forth the efforts being made by IE (I), KKLC in this direction for the benefit of engineering society in Kanyakumari District. He also introduced the keynote speakers, **Dr S Arumuga Perumal**, IETE Immdt Past Chairman, Trivandrum Centre and **Er Arun**, IOT Engineer, Coimbatore. An appeal was made to the participants to utilize services being provided by IE (I) KKLC, and to take part in the centenary celebrative seminars that were to be conducted in the coming months. In his keynote address, Dr S Arumuga Perumal enlightened the audience on the subject IOT- a combination of hardware & software technology which produces trillions of data through connecting multiple devices and sensors with the cloud and sense data with intelligent tools. He shed light on the current technology status in the country and its future needs. Er Arun deliberated on four stages of developing an IOT Device and on convergence of IOT, big data and cloud. He also shared few tricks for becoming an IOT expert. Keynote speeches were explained with the help of models, slides and practicals. Doubts were cleared by Dr S Arumuga Perumal. Certificates were presented jointly by Er V Sivathanu Pillai and Dr S Arumuga Perumal to the participants. About 53 scholars, engineering students and corporate members attended. Vote of thanks was proposed by Er V Muthum Perumal, Hony Secretary IE (I) KKLC.

Inspiring IETE Woman Achiever



Dr Nayanathara K Sattiraju (F113854) received her BE (ECE) and ME (MW&R) from the College of Engineering, Osmania University and PhD from Regional Engineering College, Warangal. She received the Computer Maintenance Corporation (CMC) Gold Medal for standing first in ME. She has more than three decade's illustrious

career as a popular teacher, renowned researcher and revered administrator. At present, she is serving as the Principal of CVR College of Engineering, a renowned Engineering College in Hyderabad.

Dr Nayanathara has the distinction of becoming the First Lady Principal of an engineering college in Andhra Pradesh in 2001. She is on the Boards of Studies and Selection Committees of many engineering colleges. Besides being an education administrator, she has been an active researcher and a guide to PhD scholars. She received the Best Paper Award from the Institution of Engineers India, twice. She is a member of professional societies, viz., IEEE and IETE. She has publications in national and international journals including Transactions of the IEEE. She has delivered invited lectures under the aegis of the IEEE and the IEI; chaired sessions in conferences and seminars.

She was instrumental in obtaining funds from the AICTE and the ISTE for development of the department of ECE and for conducting faculty development programs in CVR Engineering College.

Dr Nayanathara was elected as a member of Executive Committee (ExeCom) of IETE Hyderabad Centre and was appointed as Vice Chairperson and Chairperson of Short-term Courses Sub-Committee during 2008-2010 and re-appointed as member ExeCom from July 2011 to June, 2012. She later served IETE as its Governing Council Member in 2012-13 and 2013-16. She headed the IETE Women Engineers Empowerment Committee as its Co-Chairperson and then as the Chairperson; IETE Publications Committee as the Chairperson, during her tenure. She also served on the Boards of Examinations, Research and Academics.

Dr Nayanathara was a part of the twenty-five-member team from India that visited universities at the USA to explore avenues for collaboration, under Indo-US Collaboration for Engineering Education (IUCEE). She was a member of the Telangana State PGECET-2016 Test Committee. She is still on numerous Organizing Committees of IEI at Hyderabad.

Message

It is heartening to note that the number of girls pursuing engineering has been increasing since last few decades. They are working shoulder to shoulder with men in the engineering profession accepting the challenges willingly and proving their mettle. To be reckoned on par with men, Women Engineers must work without expecting any gender based concessions. They need to hone their parallel processing skills to strike a balance between their careers and lives. I wish all the young women engineers brilliant careers and happy lives.

— by Dr Nayanathara K.Sattiraju

ISRO & Odyssey to the Moon

It is heartening to note that the Honourable Prime Minister stood with us strongly and applauded the achievements of ISRO.



Courtesy– <https://www.dnaindia.com/india/column-isro-odyssey-to-the-moon-2788216>

Dr Vikram A Sarabhai, the father of Indian Space programme, whose birth centenary was celebrated on August 12, visualised the space technology to be used for a common man by providing communication, remote sensing and broadcasting for societal applications. He also envisioned the development of launchers for satellite launching from Indian soil. ISRO achieved more than Dr Sarabhai's expectations by launching and operationalising a large constellation of communicational satellites, remote sensing and scientific satellites. Today, India maintains the largest constellation of remote sensing satellites in the world.

Prof Sarabhai did not envision going for interplanetary missions and missions to Moon. ISRO surpassed his expectations by launching Chandrayaan 1, Mars Orbiter and the story continued with the Chandrayaan 2. An ambitious project where the Orbiter plus lander Vikram and Rover Pragyan together weighing around 4 tonnes were launched by GSLV MARK 3. The mission is the successor of Chandrayaan 1, where a small capsule was put on Moon surface and Mars orbiter was put in Mars orbit in the first attempt.

The successor of the Chandrayaan 1, the Chandrayaan 2, was planned:

- To develop and demonstrate the key technologies for end-to-end lunar mission capability, including soft-landing, and roving on the lunar surface.
- To expand the lunar scientific knowledge through a detailed study of topography, mineralogy leading to a better understanding of the origin and evolution of the Moon.

It is worth recalling here that the presence of water was detected by Chandrayaan 1.

Chandrayaan 2, the combined payload entered into the Moon's orbit successfully on the planned dates and all the complex and critical operations of reducing the orbit height to 100kms*100kms, separating Vikram the lander and deboosting it to 30kms*100kms orbit, was a great feat attained in a professional manner by the most optimum fuel use. Early morning of September 7, 2019, the critical manoeuvring of further deorbiting Vikram for soft landing on the south pole was initiated around 1:30 am. The hard breaking manoeuvring was done successfully while during the soft breaking the lander reached at a height of 2.1 km and apparently due to some guidance and control maneuver malfunctioning, soft-landing could not be achieved.

The orbiter is successfully orbiting the Moon in its designated orbit. It has got 8 payloads onboard:

Chandrayaan 2, large area soft X-ray spectrometer to map the abundance of the major rock forming elements like Magnesium (Mg), Silicon (Si), Aluminium (Al), Calcium (Ca), Titanium (Ti) and Iron (Fe) at a special resolution of 12.5 km using the technique of X-ray Fluorescence.

X-ray solar monitor to study X-rays emitted from Sun and Sun corona to support the first experiment.

Dual Frequency Synthetic Aperture Radar to study the surface features of Moon, especially the polar regions which will help in studying the water presence in craters. Infrared Spectrometer to image the Moon surface in 0.8 to 5 microns to investigate and identify minerals and detect water molecules in polar regions.

Chandra's Atmospheric Composition Explorer (CHACE-2): It is a Neutral Mass Spectrometer which will study the lunar exosphere.

Terrain Mapping Camera: Which has three cameras- fore, nadir and aft for preparing 3-D maps of Moon surface.

Dual Frequency Radio Anatomy of Moon bound hyper sensitive ionosphere and atmosphere probe: To measure the total electron contents of the lunar ionosphere and its morphology.

Optical High Resolution Camera: To provide high-resolution images of the Moon. Unfortunately, lander and rover which had together 6 payloads will not be working, but the outcomes of 8 experiments on board orbiter will enhance the knowledge of human race about overall geology, mineralogy and atmosphere of the Moon. The detection and estimation of water in polar regions and the high resolution images will provide valuable inputs to the future researches who may in future like to land on the polar region or colonise it. The excellent performance of orbiter and functioning of its payloads ensures the fulfilment of more than 60% of the mission objectives.

The experience gained in launching the composite Chandrayaan 2 and raising its orbits in a phased manner with utmost reliability and accuracy with the economic use of fuel and bringing it in first attempt to lunar orbit and further deboost operations have increased our knowledge towards handling such critical manoeuvres. This will be very useful for future interplanetary and lunar missions. The experience gained is invaluable.

If one takes an integrated view, the various technologies and softwares developed by the ISRO and industries have increased our confidence and skills for repeating such missions and using those things for civilian and defence uses.

The money spent (Rs 978 crore) is much less than the one spent by other agencies. Majority of this money has been given to industry and developing the infrastructure. This way we can say that more than 80% of the mission's objectives have been achieved which is usually a very positive result/return. ISRO scientists and people working in various industries like HAL, BEL, L&T and a large number MSME's deserve to be congratulated. The country feels very proud of the scientists and their achievements.

It is heartening to note that the honourable Prime Minister stood with us strongly and applauded the achievements of ISRO. The whole ISRO community is grateful to the country and the Prime Minister for excellent support in the need of hour.

Dr S Pal, former Vice-Chancellor of Defence Institute of Advance Technology, Pune, A S Dhawan professor and a senior adviser at SATNAV-ISRO, Bengaluru.

IETE Students' Forum (ISF) Activities

- The Dept of ECE, **ISF at Ramco Institute of Technology (RIT), Rajapalayam** organised a guest lecture on significance of VPN, MPLS, Wi-Fi and VoIP in Networks was delivered by Shri S Satheesh Kumar, IT Exec Engr, Soft Tek India Pvt Ltd, Bangalore on **Jan 31, 2019**. Training part was handled by Shri R Vimalathithan, Dir, M/s Krish Tech, Coimbatore. A two-day workshop was organised on Smart Wireless Technologies with LoRa during **Feb 1-2, 2019**. In addition, a guest lecture on Recent Trends in Medical Electronics was arranged on **Feb 9, 2019** by Shri G Guru Prasad, CEO & Founder, Meds by Healthcare & Engineering Solutions, Coimbatore.
- **ISF at Shri Ramdeobaba College of Engineering and Management, Nagpur**, organized an installation ceremony of ISF at Indian Society for Technical Education (ISTE), Nagpur and a workshop on “Machine Learning, AI & IOT” on **Jan 12, 2019**. Shri Pranav Chauhan, TCS Pvt Ltd, Nagpur, gracing the event the Chief Guest, delivered a talk on the topic with his team members. Dr BP Joshi, Centre Chairman and Shri Ajay Sawatkar were also present.
- **ISF at Jawaharlal Darda Institute of Engineering and Technology (JDIET), Yavatmal**, organized an expert lecture by Dr G G Sarate, Prof & HoD, Govt College of Engg, Yavatmal on “Optical Amplifier” in association with IETE Yavatmal Sub-Centre on **Jan 21, 2019**. About 55 students attended. Another expert lecture organized on “Approach towards innovation while education”, was delivered by Shri Ajinkya Kottawar, President, Dnyan Foundation Nagpur, in association with IETE Yavatmal Sub-Centre on **Feb 25, 2019** wherein 80 students attended. The **ISF** also organized an expert lecture by Prof (Dr) A A Gurjar, Sipna College of Engg, Amravati on “Microwave Communication System Design” in association with IETE Yavatmal Sub-Centre on **Mar 29, 2019**, which was attended by around 54 students.
- **ISF at Maharshi Karve Stree Shikshan Samstha's (MKSSS) Cummins College of Engineering for Women, Nagpur**, organized 2019 annual function titled, “Anannya” during **Jan 28-Feb 2, 2019**, with great pomp and show. Another two-day training program on “Applications of Pluto Drone” was organized during **Feb 27-28, 2019**, in collaboration with Dalvik Apps, We Can Education and Drona Aviations. The program was conducted under the guidance of Shri Milindji Kukade, Chairman MKSSS Nagpur Prakalpa and coordinated by Prof Jaya Raut, the IETE coordinator.
- **ISF of VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad**, conducted a poster presentation on “Trending Technologies & Solutions to the Present Problems” on **Jan 31, 2019** for 1 year B.Tech students to improve their inter and intra personal skills.
- The Dept of ETE at **ISF-SKN Sinhgad Institute of Technology & Science, Lonavala**, organized a one-day workshop on “Python” by Shri Vishal Agrawal for students of BE/TEE&TC on **Feb 21, 2019**. Prof Priyanka Halle, ISF Co-ordinator also attended the session. A two-day conference on “Information, Communication and Energy Systems and Technologies” was held during **Apr 5-6, 2019**, wherein proficient lectures were delivered by Shri Sunil Chore, Country Head, India Soft Technologies (P) Ltd, Pune and Dr A A Kalge, BOS member, Dept of EE, SPPU Pune. The welcome address on the occasion was delivered by Prof RM Thadi, HoD/ E&TC. The first panel discussion on ‘Control and Transmission’ was chaired by Dr MS Choudhari while the next panel discussion on ‘Application of Wireless & Embedded in Electrical Engineering’, was chaired by Prof RV Babar, eminent academician and Assoc Prof of the College. Research papers were presented in four parallel sessions. Dr MS Rohokale, Principal SKN SITS, Lonavala, felicitated the keynote speakers. Vote of thanks was proposed by Dr J R Shaikh, coordinator.
- **ISF at Govt Polytechnic (GP), Sadar, Nagpur**, organized an International Conference on “Green Energy for Sustainable Development” on **Feb 26-27, 2019**.
- **ISF at Dept of ECE of Dr MGR Educational and Research Institute, Chennai**, organized a student’s symposium by the name INNOWAVZ – 2K19, comprising of paper presentations & a project competition on **Mar 29, 2019**. A motivational talk was accommodated in the session given by Shri Arul Sabarinath, Aharam Services, on the occasion.
- **ISF at Nashik District Maratha Vidya Prasarak Samaj's Karmaveer Adv Baburao Ganpatrao Thakare College of Engineering, Nashik**, organized a guidance lecture for BE (E&TC) students on **Mar 30, 2019**, by Prof BN Shinde (IETE-ISF Staff Coordinator). Dr SS Morade, Hony Secretary IETE Nashik Sub-Centre & PG Coordinator, KKWIEER and Prof PJ Mondhe, AP, KKWIEER were present and they advised the students to avail opportunities present in higher education in their addresses. Prof PJ Mondhe told about the advantages of pursuing PG in VLSI and Embedded System domain, while addressing the students.
- The **ISF at Dept of ECE of Sri Venkateswara College of Engineering, Sriperumbudur, Chennai**, organized a seminar on Computer & Communication Networks and Security on **Apr 1, 2019** followed by a technical talk of Shri A Sadagopan, Ex AGM, BSNL, Chennai, on ‘Evaluation in Telecommunication.’ Another programme on the Faculty Development Programme (FDP) was arranged on “Soft Computing Techniques and its Applications” during **Jun 10-14, 2019**.
- **ISF at MLR Institute of Technology, Dundigal, Hyderabad**, conducted a “Micro Project Competition” on **Apr 27, 2019**. The notables present on the occasion were: Dr KVNSVPL Narasimham, Sc Offr (F), Group Leader, Electronics Support Group, NCCCM/Bhabha Atomic Research Centre, Hyderabad and Dr Morapakala Srinivas, Assoc Prof, BITS, Pilani, Hyderabad Campus. About 75 students participated in the programme.
- A technical talk by Shri Vardhana M, Design Engr, NXP Semiconductors, Bangalore, was organized at the **ISF, Dept of ECE, Sahyadri College of Engineering and Management, Mangaluru**, on **May 3, 2019**, wherein the students were presented information on “Introduction to FPGA and its Applications in Image Processing”.
- **ISF at Jayawant Shikshan Prasarak Mandal Bhivrabai Sawant Polytechnic, Wagholi, Pune** in association with **IETE Pune Centre** organized an Aptitude Test and group discussions with an aim of personality and confidence development of students on **May 15, 2019**. Dignitaries present were: Dr Sachin Admane, Dir, Bhivrabai Sawant Polytechnic; Dr Yogesh Anagal, Vice-Chairman, IETE Pune Centre; Prof Vaishali Sonone, HoD/E&TC, Convenor; Prof Sachin Ghuge, Judge and others.
- The ECE Dept of **ISF BVRIT Hyderabad College of Engineering for Women, Hyderabad** organized a three-day boot camp for school

children of BVRITH faculty from **May 28-30, 2019**. The coordination was done by Dr J Naga Vishnu Vardhan, Shri R Priyakanth. Guidance was provided to the students to carry out their projects by Ms K Brunda Devi and the lab technicians- Shri G Srinivas and Shri MH N V Prasad. A Project expo was arranged on the concluding day.

- **ISF at Dept of EEE, Vel Tech High Tech Dr Rangarajan Dr Sakunthala Engineering College, Chennai**, organized a Faculty Development Program on “Industrial Automation using IOT” by Shri Praveen, Application Engr, Technocrat Automation Solutions Pvt Ltd, Chennai, during **Jun 20–24, 2019**. First day lectures were focused on PLC topics viz. introduction, hardware / software, programming etc;

Second day was devoted to details delivery on SCADA system, followed by a site seeing programme to Technocrat Automation Process Control Plant, Ambattur, Chennai. On day third, HMI- Analog concept, Window navigation details were taken up which was followed by Industrial Internet of Things (IIoT) the fourth day. Day fifth was dedicated to deliberations on IIoT Data Sharing topics. An interactive session was arranged to take up the doubts of Faculty members. A memento was presented to the Chief Guest by Dr E Kamalanaban, Principal. Event was coordinated by Shri R Senthilkumar, AP/EEE and Shri Pradeep Katta, AP/EEE. The other eminent persons present included: Dr E Kamalanaban, Principal; Dr J Prakash, Head/EEE; Dr G Saravana



Kumar, Dean IQAC, Prof, Head/ECE; Dr S Govindasamy Dean R&D, Prof, Head/Civil Engineering including Shri S Sri Krishna Kumar, AP/EEE; Shri Mohammed Ovaiz A, AP/EEE; Mrs R Suguna, AP/EEE; Mrs K S Rani, AP/EEE; Shri Pradeep Katta, AP/EEE & ISF coordinator and Faculty of various institutions. An Alumni interaction meeting was arranged with Shri Argha Paul (Batch: 2013-17), Entrepreneur, Retailer at Goutam Variety, Bokaro Thermal, Jharkhand, on **Jun 26, 2019**. A guest lecture was organized on “Renewable Energy Integration in Smart Grids” by Shri VS Sriraja Balaguru, Asst Exec Engr / Electrical /Non Conventional Energy Sources (NCES), TNEB Head Quarter, Chennai, on **Jul 19, 2019**. Detailed discussions on opportunities and challenges were held. About 80 members attended. A Guest Lecture on “Power Quality” by Shri Suresh Kumar R, Sr Manager, Business Development (Tamilnadu and Kerala), Digital Energy-Power Solutions, Schneider Electric India Pvt Ltd., held on **Jul 22, 2019**, witnessed deliberations on Power quality deviations, smart grids and power quality. Event was coordinated by Shri S Sri Krishna Kumar and Shri R Senthilkumar. Dr E Kamalanaban, Principal and Dr J Prakash, Mr Mohammed Ovaiz A, Mrs R Suguna, Shri Pradeep Katta, & ISF coordinator and students of III & IV year/EEE, attended the event.

- **ISF at Kongunadu College of Engineering and Technology (KCET), Trichy**, organized a guest lecture on “Emerging Trends and Applications in Wireless Technology” on **Jun 22, 2019** for students of II, III & IV year. Dr PSK R Periyasamy, Chairman, KCET, presided over the function. Welcome address was delivered by Shri M Dharmalingam, HoD, ECE. Dr J Yogapriya, Dean R&D, praising the efforts of the organizers, threw light on the importance of the topic. Dr R Asokan, Principal, KCET, chose to speak on the reasons for burgeoning of technologies in Wireless Communication and motivated and advised students to learn from current trends and applications. Shri Vignesh Sankaran, Sr Platform Engr, Quantiphi Analytics Solution Pvt Ltd, and Co-Founder, Pentafox Technologies, Bengaluru, also outlined the emerging trends in Wireless Technologies, highlighting its various applications. Vote of thanks was proposed by Dr K Amudha, Assoc Prof, ECE/KCET.

- A guest lecture was organized jointly by IETE & ISF of **Kamaraj College of Engineering & Technology (KCET), Virudhunagar** on “Signal Processing Applications for IoT” on **Jun 25, 2019** for III year ECE students. It was delivered by Dr M Sabarimalai Manikandan, IIT, Bhubaneswar. Another guest lecture on “IOT and its Applications” was organized on **Jul 27, 2019**, with an expert speaker, Shri T Palaniappan, Sr Project Mgr, from Sree Moogambiha Infotech, Chennai, who elucidated the basics of IOT to II year students. He explicated how sensor/camera collects information and transmits it to microcontroller, which in turn activates the actuators (Motor or LED display). The entire process which is programmed in C/C++/Python/C sharp etc., gives data to cloud and results in displaying the information on our IOS or Androids. He recommended visiting the website www.thingspeak.com, to access free cloud facility. Usage of Arduino board and its components were made clear. Applications of IoT for security and safety issues were shared. The distinction between machine learning and artificial intelligence was also told by the speaker. Programme was coordinated by Dr R Suresh Babu Prof & Head/ECE. Mrs V Jeyalakshmi, AP/ECE, looked after the arrangement part.

- **ISF at Dept of ECE, KKR & KSR Institute of Technology & Sciences, Vinjanampadu, Guntur**, organized a guest lecture on **Jun 28, 2019** by Shri N Sivaji Ganesh Asst Prof, VEDA, IIT Amaravathi, on “VLSI frontend and backend design flow”. In his presentation, the speaker

covered the topics on advantages of MOSFET in VLSI Technology. Dr S K Sadulla, HoD, graced the event as the Chief Guest.

- The Student Forum at Dept of ECE, **Dhanalakshmi Srinivasan Engineering College, Perambalur (TN)** successfully organized the technical events, which included-components display, mini project, technical quiz, connection and group discussion, on **Jul 13, 2019**. Students participated actively and enthusiastically in all the events.

- **ISF at Dept of ECE & IIC of Mount Zion College of Engineering and Technology (MZCET), Pudukkottai Dist, (TN)** conducted a one-day workshop on “Recent Trends in Engineering & Technology” on **Jul 15, 2019**. The function was presided over by Shri Jayabarathan Chelliah, Chairman, Mount Zion Educational Institutions (MZEI). Mrs Florence Jayabarathan, Vice-Chairperson, MZEI, delivered the inaugural address. Presidential address was presented by Dr Jayson K Jayabarathan, Dir, MZEI. Shri Kiran Dhananjayan, Program Manager, TCS, Bangalore and Shri Narendra Babu, BNY Mellon Technologies, Chennai, were the keynote speakers. Shri Kiran Dhananjayan, sharing experience of working in the industry for over one decade, talked about the technology trends that were to there to stay and rule for another 10- 15 years. Resource person, Shri Narendra Babu, also shared his experiences and expertise in technologies and told about the technologies that were adopted by his organization. Stressing on the quote of Elbert Hubbard, which says “One machine can do the work of fifty ordinary men. But no machine can do the work of one extraordinary man”, he said that with the advancement in AI and various technologies, machines are becoming smarter, but there is always a human being behind every technology. He viewed students of today to be the key for upcoming and trending technological innovations. He concluded with his best wishes for the students.

- **ISF at Dept of ECE, Kongu Engineering College (KEC), Erode**, with the ECE Dept, organised an inaugural function for a new session on **Jul 20, 2019**. About 800 ISF students attended the programme. The Principal of KEC, Dr V Balusamy, addressed the gathering. Thiru A Venkatachalam, Correspondent, KEC, presided over the function. Shri R Agatheswaran, Student Chairman ISF, presented a detailed summary on activities planned for the academic year 2019-20. The Chief Guest, Shri P Senthil Kumar, Employment Provident Fund, Commissioner, Chennai, delivered a special talk on “Career Grooming”, which was appreciated by all.

- A new ISF session was inaugurated at Dept of ECE, **Amirta College of Engineering & Technology (ACET), Nagercoil**. To mark the occasion a function was organized under IETE Sivakasi Centre on **Jul 29, 2019**. HoD/ECE, Dr P Kannan, welcoming all dignitaries and participants, highlighted the utility and purpose of IETE Student Fora. Shri Gopalakrishnan, Campus In-charge, Amrita Institutions, Nagercoil, encouraged the staff and student members to utilize such platforms and work together for the betterment of society. Dr G Indumathi, Chairperson, IETE Sivakasi Centre, enumerated the positive benefits of ISF and also encouraged them to get associated with IETE as members & submit their research papers for the college journal as well as IETE Students’ journal. Her address also had the mention of the vision of Smart Cities Mission and its three major components. A large number of members & students attended the program.

- **ISF at EC Dept, KMEA Engg College, Edathala**, organized a workshop on “Electronic Product Design” for S3 to S5 students of EC, EEE & EIE departments, during **Aug 1-3, 2019**. Coordinators present were: Ms Smitha KM, HoD; Ms Fathima Beegum and Adhi Thanseer.

A TRIBUTE TO LATE COL B K RAI

– by Brig S V S Chowdhry (Retd)

Col B K Rai (DF-002621) obtained the B Tech degree from Benaras Engineering College and DIISc from Indian Institute of Science, Bengaluru, prior to joining the Corps of Signals in 1949. He was a Fellow of Indian National Academy of Engineering, Distinguished Fellow of the Institution of Electronics and Telecommunication Engineers and an Honorary Member of the ITU Amateur Radio Club, Geneva. He was one of the founders of the Amateur Radio Society of India and its President for several years.

As a student at Benaras, he secured his HAM license and was on the air with a homemade transmitter and war junk receiver. Unknown to him one of his HAM contacts was Governor General Lord Mountbatten who also later visited him to see his HAM station which was assembled with salvaged components from the discarded war junk .

Col Rai qualified in the Long Telecom Course at MCTE, Mhow with Distinction and was also posted as Instructor at the MCTE. He served at the Air Headquarters as part of Air Defence Planning Team and was later deputed to the Air Advisor's Department at the Indian High Commission in UK.

He took premature retirement from the Army in 1971 to work in the Industry. He initially served in two hi-tech Companies, Continental Devices India Ltd and Ruttonshaw Group of Companies, before taking up the coveted appointment of founder Managing Director of UP Electronics Corporation (UPTRON). Starting from scratch, he built up UPTRON into a massive organization for manufacturing indigenously designed Colour TV.

He was later Executive Chairman of UPTRON Group and was granted the status of Secretary in the Government of UP. He was co-founder of HCL and was its Director for ten years. He was also Chairman of HCL for seven years. After leaving UPTRON, he was Advisor to major business houses such as RPG, JK and Lalbhai and served on the Boards of some well-known companies.

Col Rai was a member of the Senate of IIT, Kanpur and was conferred a number National awards for his contribution in the field of Electronics. He was Chairman of the Apex Committee for Awards under the Dept of Electronics; Member of two men Committee for review of R&D projects in India funded by the United Nations;



Member of Task Force for Public Enterprises for fifteen years and Chairman of Panel for Electronics PSU for six years. He was President of the IETE during 1982-84.

Col Rai was my mentor and inspired and encouraged me in many ways. I first met him in 1959 and as I came to know him more closely, my admiration for him grew over the years. He also motivated me to associate myself more with the activities of the IETE. Following in his footsteps, I was elected as the President of the IETE in 1994. He was very pleased when nearly two decades later the IETE Lifetime Achievement Award was conferred on me.

He owned a house in Vasant Vihar in New Delhi. But as he was in indifferent health, to avoid the extreme summer and winter of Delhi, he decided to relocate himself at Bengaluru. After the knee-joint replacement in both his legs at Delhi, he bought a villa at Bengaluru and shifted there. He had to however visit the hospital frequently at Bengaluru for treatment due to his frail health. In 2016, the prestigious Lifetime Achievement Award of the IETE was conferred on him. But as his ill health did not allow him to travel to Delhi, the Award was received on his behalf by his daughter-in-law and grandson.

Col Rai expired at Bengaluru on **19 August 2019** after a long illness. In his passing away, the country has lost an outstanding technocrat who made a name for himself for his contribution in the growth and in development of the electronics industry in the India.

(The author is a Past President of both, the CSI and the IETE)

Col B K Rai (Retd)

Former Past President and Distinguished Fellow IETE, passed away on August 19, 2019, in Bengaluru, India.

On behalf of the Institution of Electronics and Telecommunication Engineers (IETE), we extend our heartfelt condolences to the family.

He had an inspiring personality with wealth of knowledge and wisdom. Col Rai's presence during his time represented bold steps towards empowerment leading to enhancement of organizational leadership, while his ideas and strategies exemplified the innovative thinking necessary to continue IETE's legacy of excellence across areas of research and intellectual engagement. His remarkable dynamic spirit will remain an inspiration to everyone. As part of the IETE community, we mourn the loss of Past President Col Rai, and are also thankful for the time we were able to spend with him.

May his soul rest in peace!

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Prof (Dr) K T V Reddy
President



Lt Col Dipankar Sen (Retd)
Secretary General

Ref: IETE/322/65th AGM/2019

Sept 2019

To
All Corporate Members of IETE

65th (2018-19) ANNUAL GENERAL MEETING

Dear Sir/Madam,

NOTICE is hereby given for the 65th (2018-19) Annual General Meeting of the Institution which will be held at 1430 hrs on 27th Sept 2019 at Sant Kabir Sabhagar, Dr Rammanohar Lohia Avadh University, Ayodhya - 224 001 (U.P).

You are requested to make it convenient to participate in the 65th (2018-19) Annual General Meeting.

Thanking you,

Yours faithfully

Lt Col Dipankar Sen (Retd)
Secretary General

A G E N D A

ITEM 1 TO CONFIRM THE MINUTES OF THE 64th (2017-18) ANNUAL GENERAL MEETING HELD ON 28th SEPTEMBER 2018 AT HOTEL THE GRAND MEHFIL, AMRAVATI - 444605.

The Minutes are available on our website www.iete.org. No comments have been received. The Minutes may be confirmed

ITEM 2 TO CONSIDER AND ADOPT THE 65TH ANNUAL REPORT OF THE GOVERNING COUNCIL FOR THE YEAR 2018-19.

The 65th Annual Report is enclosed herewith and also available on our website www.iete.org.

ITEM 3 TO CONSIDER AND ADOPT THE AUDITED BALANCE SHEET AND INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 MAR 2019.

The Audited Statement of Accounts for the year 2018-19 is given in the 65th Annual Report hosted on our website www.iete.org and mailed to all Corporate Members of IETE.

ITEM 4 ANY OTHER MATTER WITH THE PERMISSION OF THE CHAIR

Any other point, to be taken up at the meeting in accordance with Byelaw 70, may please be sent to reach the HQ Secretariat by 20th September 2019.

Phones: 011-43538821/22
E-mail: president@iete.org
sec.gen@iete.org

Fax: 011-24649429
Website: http://www.iete.org

THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS
2, Institutional Area, Lodi Road, New Delhi 110 003

Prof (Dr) K T V Reddy
President

Lt Col Dipankar Sen (Retd)
Secretary General

Ref:IETE/323/1st -SGM/2018-19



06

Sept 2019

To
All Corporate Members of IETE

1st (2018-19) SPECIAL GENERAL MEETING

Dear Sir/Madam,

NOTICE is hereby given for the 1st (2018-19) Special General Meeting of Corporate Members of the Institution, which will be held in accordance with Byelaw 72 at 1530 Hours on Friday, the 27th Sept 2019, at Sant Kabir Sabhagar, Dr Rammanohar Lohia Avadh University, Ayodhya - 224 001 (U.P) to consider the Agenda as appended below.

You are, therefore requested to make it convenient to attend. If, for some unavoidable reasons, you are unable to attend the meeting, you may exercise your vote through a proxy form (attached), which should reach the Secretary General, IETE at 2, Institutional Area, Lodi Road, New Delhi - 110 003 not less than 48 hours before the time for holding the Meeting i.e 1530 Hours on 25th Sept 2019. Proxies received after 1530 Hours on 25th Sept 2019 will be treated as invalid.

Thanking you,

Yours faithfully,

Encl : As above

Lt Col Dipankar Sen (Retd)
Secretary General

AGENDA

ITEM 1 CONFIRMATION OF THE 1ST (2016-17) SPECIAL GENERAL MEETING OF CORPORATE MEMBERS HELD ON 16TH SEPTEMBER 2017 AT KOCHI.

The Minutes are available on our website www.iete.org. No comments have been received. The minutes may be confirmed.

ITEM 2 CONSIDERATION OF AMENDMENTS OF BYELAWS No. 2, 7(a), 9,10, 11, 12, 13, 17,22, 35 (d),72 and 87.
Detailed proposal as approved by the Governing Council is placed herewith for consideration.

Note: The Special General Meeting (SGM) of Corporate Members of the Institution is being held as per Clause 17 of the Articles of Association. Great significance is, therefore, attached to the views that may be expressed by the Corporate Members on the amendments, revoking, altering or supplementing the Byelaws.

NOTE : Proposed Amendments to Byelaws has been hosted on our Website www.iete.org.

E-Mail: president@iete.org, sec.gen@iete.org
Website: http://www.iete.org



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Fax: 011-24649429

THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS
2, Institutional Area, Lodi Road, New Delhi 110 003
PROXYFORM

The Secretary General
The Institution of Electronics and Telecommunication Engineers
2, Institutional Area, Lodi Road, New Delhi-110 003

I _____ Membership No _____ of _____ being a Corporate Member of the Institution hereby appoint _____ of _____ or failing him _____ of _____ as my proxy at the 1st (2018-19) Special General Meeting of the Institution to be held on the Twenty Seventh day of September 2019 and at any poll in connection therewith. As witness my hand _____ day of _____ 2019
Address _____

Signature _____

Class & Mem. No. _____



THE INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS (IETE) CORPORATE MEMBERSHIP DETAILS

- This information is required to update your details in IETE database for future communication.
- All the fields are mandatory to be filled in CAPITAL LETTERS.
- Please send it to I.E.T.E., #2, Institutional Area, Lodi Road, New Delhi – 110003 duly filled and signed or mail it to membership@iete.org.

Membership Number:
Date of Enrollment:

Name:

Title First Name Last Name Sex: Male / Female Father's Name:

Date of Birth: Qualification:

Occupation:

Designation:

Specialization:

Correspondence Address:

City/State:

Pincode:

E-mail Id:

Mobile No:

SIGNATURE



Prof (Dr) K T V Reddy, President IETE visited Atlanta, Georgia, USA on 21-22 June 2019 for IEEE Meeting with Chairs of different Societies during the Global Society Meet

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