

IETE

NEWS LETTER

Volume-22, Number-3, September-December 2020

From President's Desk



Dear Members,

As we step into the New Year 2021, let's first pause and thank God for keeping us in good health and spirit to be in this moment and pray for all our colleagues and near and dear ones, whom we lost to the pandemic. The year gone by has indeed been an emotionally testing and a turbulent one and left many lessons to be learnt. I am sure the year 2021 shall bring new opportunities and hopes for all of us.

Undoubtedly, everyone contributed to keeping the system in motion during the lockdown period. On reopening, earnest efforts were made at IETE to speed up the important tasks and make up for the time lost during the containment period. The result of the collective efforts may not be clear right now but shall in near future, whether concerning IETE publications, examination or membership. IETE exams for June 2020 were postponed and held physically in October 2020. Similarly, Dec 2020 exams were rescheduled for January 2021. I am also aware that our fellow colleagues at IETE HQs and Centres, successfully conducted a number of quality technical programmes adapting to new innovative digital aids, thus showing their resilience and ability to bring out the best in a challenging situation. I encourage you all to find out more what was endeavoured by each of our Centres by going through the news published inside the issue.

In line with the government's Digital India push, IETE is setting up 'Centre of Excellence' (CoE) at its HQ in New Delhi and at its various Centres to promote next-generation technologies, which will include IoT, Cyber Security, Artificial Intelligence (AI), Machine Learning (ML), Robotics, virtual Reality and Augmented Reality. A Centre of Excellence on IoT has already been set up at IETE Bangalore Centre. Centre of Excellence on Cyber security is being established at IETE HQ. The CoE will facilitate the collection of standards and practice to develop the skills of team members and attempt promoting the institution to the next level. We will try to bring together our Centres and PACs, ISFs, its faculty from different disciplines and provide share facilities. To meet the requirements of industries, value-added courses will be organized for students through this medium.

I am happy to confirm that the IETE University is being established at Ranchi, Jharkhand. A detailed project report in this regard has already been submitted to the Government of Jharkhand. Very soon a Letter of Intent (LoI) will be issued for the Government of Jharkhand for commencement of work. The efforts of the team of IETE Ranchi Centre actively working for this project are highly appreciable and commendable.

IETE journals are doing exceedingly well. Every year, we accept and publish more than 1500+ journal articles. Our Journals could be best suited for researchers and scholars to publish & promote their research work. We encourage the beginners to send in their intellectual contribution for issues in the IETE Journal of Education, to start with, which usually see quick publishing in comparison to IETE Journal of Research and IETE Technical Review. Contributors should follow the instructions step by step before making a submission. Details can be found at the journal's home page at <https://www.tandfonline.com/toc/tije20/current>

Definitely, our day-to-day work has taken a new definition and dimension in the overwhelming challenges of COVID-19. The institutional challenges prompted us to decide to offer special discounts to IETE Memberships in bulk. The determination proved to be favourable as there has been a step-up in the membership base lately. Likewise, a surge in online usage by most of the people during pandemic offered us an opportunity to tap into our members' sentiments and develop new ways to deliver our services to build stronger relationships. Of course, such technological challenges will require us to make significant changes in the ways we operate, but I am happy to say IETE is undertaking necessary steps in the direction in all possible capacity.

Finally, I wish you and your family a very happy and prosperous new year. Stay safe and beat the Pandemic with new energy.

Prof (Dr) J W Bakal

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IETE HQs, New Delhi



News from IETE Headquarters

63rd Annual IETE Convention

“Role of 5G in Building a more Resilient & Adaptable Organization”

IETE organized its **63rd Annual IETE Convention (AIC-2020)** on the theme **“Role of 5G in Building a more Resilient & Adaptable Organization”**, jointly with the IETE Mumbai Centre, through virtual mode on 27th Sep 2020. The event kick started with recitation of Saraswati Vandana. The opening remarks were given by the Chairman, IETE Mumbai Centre, **Er Parag Walinjkar** with their deepest gratitude to the Chief Guest **Shri Abhijit Mazumder**, CIO & VP, Tata Consultancy Services; President IETE, **Prof (Dr) J W Bakal**; Guest of Honour **Shri K Jayarajan**, Chairman, BARC Safety Council at BARC, Govt of India; Past Presidents of IETE and other invited dignitaries for their gracious presence on the occasion. He highlighted the importance of the topic chosen for deliberation in the 63rd IETE convention and thanked for giving IETE Mumbai Centre the opportunity to host AIC -2020. He acknowledged and appreciated HQ’s support in jointly organizing the event in a short time. **Prof (Dr) A P Thakare**, Chairman, TPPC IETE, presented an overview of the programme along with the other activities falling under Technical Programmes Committee. The President IETE, **Prof (Dr) J W Bakal**, explained IETE’s rationale to celebrate its flagship event digitally and the topic chosen for deliberation, which was much needed & important during the time to explore possible solutions to the challenges posed due to pandemic.

The Chief Guest, **Shri Abhijit Mazumder**, CIO & VP, Tata Consultancy Services, delivering the keynote address on the theme mentioned about the significance of 5G, which was expected to significantly help overcome the existing challenges and wirelessly connect the edge to the cloud enabling new innovations across industries. He said that it would open opportunities for many new services and business models that depend on orchestration of data in real-time. 5G networks have the ability to provide the necessary infrastructure backbone, to make online experience more real. It has potential to accelerate the digital economy multifold. He further added that 5G technology will amount to \$3.5 trillion of output and create 22 million new jobs worldwide with 23% jobs in India. Also, that smart cities can become reality using 5G and with 5G it is possible to monitor and diagnose patients remotely.

To mark the occasion a **Souvenir** was released digitally by the Chief Guest and the President IETE.

The **IETE Life Time Achievement Award 2020** was conferred on **Dr S Pal**, Past President IETE and the prestigious **Distinguished Fellowships (2019-20)** were conferred on **Col Balraj Anand (Retd)** and **Shri C K Haridas**. The recipients expressed their gratitude for the honours conferred vide their addresses. In the **IETE Best Centre Awards-2020** category, the first position was clinched by the **IETE Bengaluru Centre**, followed by **IETE Chandigarh Centre**. None of the IETE Sub-Centres won any

award in category of Best Sub-Centre Award. **The IETE National Technical Paper Contest-2020** was hosted by the **IETE Pune Centre**. The detail of winners of the Contest has been published inside the issue.

The **51st Bhabha Memorial Lecture** was delivered by **Shri K Jayarajan**, Chairman BSC, BARC, Mumbai, on the topic “Nuclear Radiation and Radioactive Material Handling”. The audience was enlightened on the positive aspects of nuclear radiations and the speaker, with the help of slides, presented remote handling of the radioactive substances using intelligent robotic applications. He informed how self reliance had been the dominant & guiding factor in the Indian nuclear industry for development of state-of-the-art remote handling devices. The presentation was made in very lucid manner and liked by all.

The **43rd Ram Lal Wadhwa Award-2020** was presented to **Prof (Dr) Aminesh Biswas**, Director, NIT, Rourkela. He was awarded for his significant contribution in the field of microwave and RF electronics. During his lecture, Prof Biswas articulated on the new emerged technology known as “Substrate Integrated Waveguide (SIW)” that incorporated nonplanar waveguide-based circuits in planar substrate. The awardee informed that the technology inherits the advantages of both planar and non-planar circuits *e.g.* low loss, high Q, good electromagnetic shielding, easy interconnections, easy fabrication, conformal structure *etc.* He stated that recently SIW technology-based cavity backed slot antennas had been proposed to achieve high gain with unidirectional radiation pattern while maintaining planar form. The designs of planar slot array antenna using SIW technology have also been proposed for high gain applications and by using the inherent properties of SIW, clever designs of self-duplexing antennas were possible.

The afternoon session was devoted to the **IETE Awards conferment ceremony**, honouring the recipients. Due to Corona pandemic, certificates, medals, plaques, prize money were sent in advance to the awardees so that participants could eyewitness achievements of the awardees in the session. **IETE Best Paper Awards** were given to the authors of the articles published and chosen best from IETE Journals-2019. The students from AMIETE/DipiETE streams were awarded for their academic excellence in the exams of Jun/Dec 2019.

During the valedictory session, **Prof (Dr) J W Bakal**, President IETE, in his address appreciated the efforts put in by the team of IETE Mumbai Centre and HQ for successful organization of the event. Vote of thanks was proposed by **Prof (Dr) Nilesh N Kasat**, Zonal Mentor (West) of IETE. Program ended with the Pasaydaan sung by **Prof (Dr) A P Thakare**, while others joined him.

67th Foundation Day of the Institution celebrated

The 67th IETE Foundation Day was celebrated on the theme “Emerging Technologies for Effective Management of the Pandemic” on 2nd Nov 2020. Prof K K Aggarwal, Chairman, National Board of Accreditation (NBA), New Delhi, Former Founder Vice Chancellor, GGSIP University, New Delhi and DFIETE & Past President IETE, graced the online event as the Chief Guest. At the outset a two-minute silence was observed to show love & respect to the departed soul of Dr S R Gowarikar—a senior Fellow Member, Former Chairman, IETE Chandigarh Centre (1986-89) and Former Director, CSIR-CSIO, Chandigarh.

In the opening remarks, Prof (Dr) M N Hoda, Chairman, IETE Technical Programmes & Publicity Committee (TPPC), expressed his gratitude and deepest reverence towards IETE’s founder members, past presidents and others, for working hard and contributing in making IETE a prominent professional institution. He spoke about TPPC activities and their endeavour in conducting technical activities on themes of topical interest. Talking on the theme of the day, he remarked on engineering-based several innovative and modern technologies that were being used to counter-attack the pandemic effectively.

Prof (Dr) J W Bakal, President IETE, in his address, highlighted IETE services made towards developing and improving technical competencies, particularly in present working environment, which was a great challenge for professionals. He underlined the importance of new-generation technologies having huge advantages and being considered as the building blocks for Industry 4.0. The roles of emerging technologies in response to this global emergency of public-health challenges, was emphasized on. He expected the event to offer a good opportunity for all to learn & exchange novel promising strategies, needed to improve the efficiency of the global efforts in the pandemic, effectively.

The first technical talk of the event was presented by Ms R Ezhir Pavai, Vice President (Wireless Service Line), Altran (Gurugram) on “Use Cases of 5G in Today’s World”, highlighting the importance of 5G in the future, more so in present difficult times like COVID-19. Right from using devices which require low latency applications to very high bandwidth for large number of connected devices, the speaker said that 5G could help pave the way for the new normal world. She discussed the 5G status in India and work of the TRAI in allocating 5G spectrum (3.3 GHz to 3.5 GHz) in Q1’2021. Progress made by Jio, Qualcomm, Airtel was also presented. Uses of 5G in teaching (online classes), agriculture, healthcare (collecting samples, remote surgeries, use of robots in pandemic, providing better security, checking trends and cases), business (online meetings, work from home, delivery agents, usage of drones, travels, aeronautics, app based cabs, touch-less information payment), 5G for Industry 4.0 (people working from remote areas, to check temperature and pressure in different industry, common network information structure that could be sliced for different industries to get optimal resource

usage, network slicing on 5G with local offloading), 5G for surveillance and defense (use of drones by Indian Police forces, use of Image recognition apps during panic situation, better security for connection), 5G for entertainment & Gaming (IP based connection for TV, laying DSL & Fibre broadband) etc., were all discussed in details.

The second technical talk was presented by Shri Anil Pathak, Director (Engineering), Harman, Gurugram, on the topic “IoT-Overview and Its use cases for Pandemic”. As the topic suggests, he deliberated on uses of IoT technology in effectively managing pandemic like COVID-19 in situations like detection, contact tracing, cluster identification, compliance of quarantine, patient and elderly care, public care, when patients return to the work, remote healthcare, sanitization, crowd management, hygiene (mask) compliance, etc. Benefits of uses of IoT, solutions deployment by companies were shared. The Open Systems Interconnection (OSI) mode developed by the International Standards Organization (ISO) was explained. Other topics taken up were on the architecture of IoT communications, analytics, Cloud, start-up & API.

The next speaker, Shri Subhankar Pal, Asst Vice-President (Research & Innovation), Altran (Gurugram), spoke on “Digital Twin: Defining Future of Manufacturing in the post COVID-19 World”. Viewing this crisis as different, he said it would hit the economy harder than the 2008 financial crisis. Industries would recover but slowly, therefore, according to him, rapid digitalization was the need of the hour. He talked about the Industrial revolution from Industry 4.0 (today) to Industry x (tomorrow) having smart, autonomous factories with AI and digital twins. Digital twin, he informed, is the digital replica of physical assets, systems or processes across its life cycle, for enabling the understanding, learning, reasoning and dynamically re-calibrating for improved decision made in real time and to drive positive business outcome. He informed how the digital twin technology was setting the new normal for manufacturing industry and helping to maintain business continuity during this pandemic without putting employees at risk. It also enables remote operations in the factory, remote monitoring of critical processes for quality control, medical sector, virtual training of new systems, etc. though rich immersive experience and real-time data analytic. He presented examples of use of digital twin technology by world class companies like in building of a smart factory by the Airbus; its use in turbine installations for power generation and industrial applications using existing data by the Siemens and in making movable traffic bridges (the Schinkelbruggen Bridge) at Netherlands on highway A10 in Amsterdam, being used as roadways, waterways and railways.

The Chief Guest, Prof K K Aggarwal, DFIETE, Past President IETE, in his address expressed happiness over being introduced especially as Past President IETE to the audience and said that it

was a great coincidence that three institutions, namely IET (IETE), IIT and CSIR were established at the same time, way back in 1953 when the thrust was being given & recognized for the importance of non-formal education, formal education and research in the country. He said founding together of these Institutions was not just a coincidence but outcome of the experiences of the fore-fathers. He said that the time had come for working and coming together of these three institutions. IETE that had been concentrating on IT since its early days, and today the same area has become a multidisciplinary subject encompassing, computers, communications, psychology, cybernetics, which is the foot-print of IETE's earlier focused work. He opined that IETE could be made into a much greater organization at this juncture, when the country is giving utmost impetus to IT.

Speaking on the theme of the day, Prof Aggarwal said that no new technology could solely be called the great deliverer unless it takes support of another technology. Coming together of technologies like 5G, IoT, drones, Block Chain, AI AR, VR, was interesting as chances of invention of great products was more, which could be favourable in pandemic situation. He called the present crisis 'a war' because it had caused the severest disruption

that the generation had ever seen. He believed the technologies coming into the forefront to deliver good things in bad situations, always remain for times to come. He was of the view that engineering should be woven more with creativity for innovative solutions as being seen in present crisis, where creativity seemed to be facilitating in many conditions & locations. He appealed the members and G C Members putting their best foot forward and asked them to give strong emphasis on establishing the IETE University at times especially when the new NEP gives them scope of trying what was non-existent before. He was of the view that the virtual University could be run without a full time teacher and IETE could be an effective coordinator between the students and faculty world-over. Prof Aggarwal advised establishing IETE University with totally different dimensions.

Senior distinguished members of the Institution felicitated by the Chief Guest and President IETE on this special day included: **Shri B P Srivastava** (F-019030); **Brig Ramesh Chandra** (Retd) (F-069578); **Col T N Shreevastawa** (F-110305); **Prof Ajay Kumar Tandon** (F-097821) and **Shri D R Mehta** (F-008200). The programme concluded with a vote of thanks proposed by **Shri Pankaj Kumar Sharma**, Secretary General, IETE.

IETE National Paper Presentation (INPP-2020)

IETE Pune Centre organized a **webinar on IETE National Paper Presentation (INPP-2020)** during Sep 20-23, 2020 in association with ISF at Dept E&T, D Y Patil Institute of Technology (DYPIT), Pune. **Prof (Dr) J W Bakal**, President IETE, graced the event as the Chief Guest. During the inaugural session, welcome address was given by **Dr S R Jog**, HOD/E, after which he briefly presented the achievements of the College and the total entries received in the contest. He explained that the presentation sessions were arranged in 5 tracks, coordinated and evaluated by experts from academia and industry. He informed that the papers selected and presented were based on various emerging technologies like IoT, machine learning, wireless sensor networks, robotics, artificial intelligence *etc.* **Shri K R Shende**, Immdt Past Chairman, IETE Pune Centre and Convener, gave an introduction of the paper presentation contest, and stressed on the need for conducting more such competitions that could encourage and motivate students. Subsequently, **Dr R D Kharadkar**, Chairman IETE Pune Centre, addressed the gathering, highlighting growing need for bridging the gap between academia and industry to increase employability of the students. Such paper presentation events were an ideal platform aiming to help students hone their skills towards growing needs of industry, he added.

Prof (Dr) Nilesh N Kasat, Mentor, IETE West Zone, spoke on the role and importance of IETE in enhancing technical knowledge and enabling interaction with industry to benefit both teaching and students community. **Prof (Dr) A P Thakare**, Chairman, TPCC, IETE talked on the need for adapting the changes to equip oneself with current technologies in order to face challenges. **Prof S K Khedkar**, Vice-President expressed his appreciation

on the progress made by DIT in terms of facilities, infrastructure and upgrading of the faculty members. He backed activities like paper presentations that helped empowering students greatly in understanding of current scenario in the industry.

Prof (Dr) J W Bakal, President IETE, articulated on how IETE aids in disseminating technical education, about benefits of its membership, in his address. He congratulated Dr SR Jog, and Shri KR Shende, Conveners and the organizing team for successfully organizing the INPP 2020. **Dr Deepali Sale**, Assoc Professor, E&TC, DIT, presenting vote of thanks, showed gratitude towards IETE Office bearers and members for their active participation and expressed her gratefulness to the management, Principal, faculty members and students of DIT for their constant support in the arrangement and conduct of the event. The scheduling and execution of the paper presentation was carried out by **Dr Mithra Venkatesan** and **Dr Deepali Sale**, Co-ordinators for INPP 2020.

About 60 papers were selected for presentation during 21st-23rd Sep 2020. The session's coordinators who assessed and evaluated the paper presentations were: **Track 1** Session Co-ordinator-1: Dr Parag Kulkarni, CEO and Chief Scientist, Kvinna Ltd., and Session Co-ordinator-2: Dr Urmila Patil, Dean Academics, DIT; **Track 2:** Session Co-ordinator-1: Shri Tushar Samnerkar, Senior Manager, Infosys Technologies and Session Co-ordinator-2: Dr SD Chavan, Assoc Professor, DIT; **Track-3:** Session Co-ordinator-1: Dr Yogesh Angal, HoD/E&TC, JSPM, Wagholi and Session Co-ordinator-2: Dr AV Kulkarni, Dean/R&D, DIT; **Track-4:** Session Co-ordinator-1: Dr Dhananjay Upasani, Assoc Prof, E&TC Dept, MIT-ADT Univ, Loni, Session Co-ordinator-2: Dr Bhavna Ambudkar, Dean/Alumni and ED-SI

Cell, DIT; and **Track-5**: Session Co-ordinator-1: Dr NB Chopade, Dean Academics, PCCOE, Session Co-ordinator-2: Dr Mithra Venkatesan, Assoc Prof, DIT & Session Coordinator-3: Dr Pramod Kulkarni, Assoc Prof, DIT. The top 3 paper presentations after due evaluation and assessment by the session's coordinators selected were: **"Coordination of Swarm Robots with Master Slave Configuration for Multipurpose applications"** by Ajay Bharadiya, Sakshee Kishor, Syed Ajmal of DY Patil Institute of

Technology, Pimpri, Pune (**1st position**); **"Emotion Recognition based on MFCC and Convolution Neural Network"** by Suchita P Sonawane from Sidhant College of Engineering, Sudumbare (**2nd position**) and **"Cognitive Intelligence of Internet of Things in Smart Agriculture applications"** by Rahul Keru Patil, from SVPM'S College of Engineering, Malegaon (BK), Pune (**3rd position**). Congratulations to all the winners!

IETE warmly welcomes Nominated Governing Council Members (2020-21)



Lt General (Dr) Rajesh Pant, PVSM, AVSM, VSM (Retd) (F-177312L) is an internationally recognised Cyber Security expert, who is presently tenanted the prestigious appointment of **National Cyber Security Coordinator** in the National Security Council Secretariat of India. In

this capacity he is responsible for coordinating all activities across multiple sectors to ensure a secure and resilient cyber space within the nation.

He holds a PhD degree for his research in the field of Information Security metrics. He is also MTech from IIT Kharagpur, MPhil from Madras University and Master of Management Studies from Osmania University. Prior to this appointment, he was the head of the Army's Cyber Training establishment for three years. He served in the Army Signals Corps for 41 years wherein he was awarded three times by the President of India for distinguished service of the highest order. Consequent to his retirement, he was Chairman of a listed Electronics Company, peer review member of NAAC, and Governing Council member of IETE (India).

General Pant brings to the table an interesting mix of military operations, academic excellence, corporate governance and cyber security wisdom.



Bhuwansing Ambadas Damahe (F-126212L) is a technocrat, who has excelled himself in research, corporate training and higher technical education with an additional facet in social welfare activities. Currently, as the **Joint General Manager, Larsen & Toubro Limited, Mumbai**, he holds the

responsibility of training fresh graduates and diploma engineers and also the existing employees of his organization with content and methodologies developed by his team. He is also the Principal of L&T Institute of Technology (Diploma Level) and this role extends up to setting up of the training centers for L&T Public Charitable Trust. His quest for research-based knowledge has seen him taking up lead roles in national level events like conferences, conclaves and competitions organized by L&T, by contributing his own six research papers at national level and one at international level. He is associated with the proposed world-class Skill Development Centre by L&T, which is a part of India's Skill Development mission. Shri Damahe's stint as a Research Associate with Prof P Renaud Microtechnique, at Ecole Polytechnic Federale De

Lausanne (EPFL), Switzerland, gave him the exposure to research activities at the highest international levels. He has kept himself in the forefront in his interest areas, viz., Assembly Language of Intel / Microchip Microprocessor, Microcontroller, System Design using microprocessor /microcontroller, Embedded C, IoT and Pervasive Computing etc. He is a member of Maharashtra CII Skill Development & Affirmative Action Panel; IETE; Board of Studies of VJTI Mumbai and Board of Studies for SSC, Govt. of Maharashtra. He is a Visiting Professor at BITS Pilani. Shri Damahe has left an indelible mark as a quality conscious progressive leader in all organizations he was earlier associated with. Some of these are: PCS Data Products Ltd. Bombay; Mina Fax Electronics System Pvt Ltd, Aurangabad and NIELET (Formerly Center for Electronics Design and Technology of India), Aurangabad. Shri Damahe is an alumni of VJTI, Mumbai, where completed his ME (Electronics with specialization in Computer). This is his 2nd consecutive year as Nominated member in the Governing Council of IETE.



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

Prof Bhosle served as the Chairman IETE Mumbai Centre, during 2016-18, when he was in the Governing Council. He was the Nominated member in the IETE Governing Council also during 2019-20.

26th Sir J C Bose Memorial Lecture organized at IETE Kolkata Centre

Commemorating the 162nd Birthday of Sir J C Bose, IETE Kolkata Centre organized the 26th Sir J C Bose Memorial Lecture on “Trust Model Based Secured Interaction in Internet of Vehicle (IoV)”, in association with IETE HQs on 30th Nov 2020 through digital platform. The programme was inaugurated by **Prof (Dr) J W Bakal**, President IETE. The keynote speaker **Prof (Dr) Sibaram Khara, Vice-Chancellor, Sharada University**, was introduced to the audience by the Centre EC Member, **Dr Anirban Das**. **Prof (Dr) J K Mandal**, Centre Chairman, welcomed the gathering and enlightened them on the multidisciplinary works of Sir J C Bose. The Centre Vice Chairman **Prof (Dr) A K Mukhopadhyay**, also addressed the participants. The presidential address was given

by **Prof (Dr) J W Bakal**. The Zonal Mentor (East), GC Member IETE, **Shri Ajay Kumar** in his address, highlighted the activities from the Eastern Zone. One of the interesting and entertaining parts of programme was the recitation of a poem on Sir J C Bose composed by Shri Rabindra Nath Tagore by one of the participants, **Shri Subimal Kundu**. The program was well conducted by Dr Abhisekh Das and Dr Moutusi Sing. The program participated by about 90 participants, was broadcast online through facebook. The keynote speaker, Prof (Dr) Sibaram Khara was felicitated by the President IETE during the programme. The concluding remarks were delivered by Shri H N Pradhan, Centre Hony Secretary.

IETE Zonal Seminar (North) and ISF Congress

A two-day **Zonal Seminar (North)-2020** was organized by the **IETE Jammu Sub-Centre** on “Recent Trends in Science and Technology” followed by the **North Zone Chairmen Conclave** during 12th-13th Sep 2020 through online mode. **Prof Manoj Kumar Dhar, Vice Chancellor, University of Jammu**, graced the inaugural session as the Chief Guest. Prof Dhar in his address emphasized on the need of technical collaborations for reducing the gap between basic sciences and engineering applications. Prof Dhar also appreciated the efforts by IETE Jammu Sub-Centre and assured full cooperation for future collaborations. **Prof (Dr) J W Bakal**, President IETE, in his presidential remarks, emphasized on the need of collaborative research and elaborated on the vision of IETE for the benefit of the society, especially for students of engineering and technology. Earlier, while welcoming the august gathering, **Prof Pawanesh Abrol**, Chairman IETE Jammu Sub-Centre, informed the participants about the activities carried out by the Sub-Centre in the recent years. The inauguration was addressed by **Prof (Wg Cdr) P Prabhakar**, Vice President IETE; **Prof (Dr) A P Thakare**, Chairman TPPC; **Prof (Col) S L Kapoor**, Zonal Mentor (North); **Prof Parveen K Lehana**, Convener and Head, Dept of Electronics, University of Jammu; **Prof Lalit Sen Sharma**, Convener, Zonal Seminar & Head, Dept of Computer Science & IT, University of Jammu; **Shri Subhash Chander Jain**, Chairman IETE Chandigarh Centre; and **Ms Radha Suresh**, Director Technical, NetLab Project Consultants, Chennai. Maj Gen S K Sharma, AVSM (Retd), FIETE, Jammu Sub-Centre, **Shri Joy Ganjoo**, Vice-Chairman, IETE Jammu Sub-Centre, **Er Samir Sharma**, Vice Chairman IETE Jammu Sub-Centre, and **Er Vijay Sharma**, Hony Secretary, IETE Jammu Sub-Centre. **Shri Sunil**, ADG, Prasar Bharati, Govt of India, actively participated in the seminar. The proceedings of the session were conducted by Dr Romilla Malla Bhat, Principal, GDC, Marheen and Hony Treasurer, Jammu Sub-Centre. The inauguration was followed by a technical lecture by **Dr Ram Gandhiraman**, CEO & Founder, Space Foundry Inc, USA on “**Plasma Jet Technology for Printed Electronics Manufacturing**”. A special session on **Project Idea Contest** was also conducted in the morning session in which the participants presented their innovative ideas. More than 150 participants attended the Seminar. The prizes for the winners were sponsored by Vigyan Parishad, J&K, a chapter of Vijnan Bharti and their representative **Shri Samir Vohra**, Organizing Secretary, appreciated the proceeding of the event. The Seminar was organized in technical collaboration with Dept of Electronics, Dept of Computer Science & IT, University of Jammu; M/s Sedulity Solutions &

Technologies, New Delhi, M/s NetLabs Project Consultants Pvt Ltd, Chennai, and Vigyan Parishad, J&K.

IETE North Zone Chairmen Conclave, organized as a part of this Seminar was held on 13th Sep 2020. **Prof (Dr) J W Bakal**, President IETE, presided over the Conclave, which was attended by the Chairmen from different Centres of IETE North Zone. Various issues and suggestions including infrastructure, training programmes, research publications, and enhancement of membership were put forth and deliberated upon. Prof (Dr) J W Bakal in his address appreciated IETE Jammu Sub-Centre for successful conduct of the seminar. He emphasized the need of regular interactions among the office bearers for achieving the vision of IETE effectively for the benefit of the society. **Prof (Wg Cdr) P Prabhakar (Retd)**, Vice President IETE, in his address discussed in detail various issues and challenges faced by the few Centres. Earlier, **Prof Pawanesh Abrol**, Chairman IETE Jammu Sub-Centre welcomed the participants and informed about the various initiatives taken up by the Centre.

The conclave was addressed by **Prof (Dr) AP Thakare**, Chairman TPPC, **Prof (Col) S L Kapoor (Retd)**, Zonal Mentor, North Zone, **Shri R K Vyas**, Co-Chairman TPPC, **Gp Capt R C Goyal, VSM (Retd)**, Governing Council Member, **Prof Parveen K Lehana**, Convener and Head, Dept of Electronics, University of Jammu, **Shri Subhash Chander Jain**, Chairman, IETE Chandigarh Centre, **Maj Gen S K Sharma (Retd)**, FIETE, **Prof Rakesh Vaid**, **Shri Joy Ganjoo**, Vice-Chairman, IETE Jammu Sub-Centre and **Er Samir Sharma**, Vice Chairman, IETE Jammu Sub-Centre.

Er Vijay Sharma, Sub-Centre Hony Secretary, conducted the proceedings whereas vote of thanks was presented by Dr Romilla Malla Bhat, Principal, GDC, Marheen and Hony Treasurer, Jammu Sub-Centre.

The **Chairmen of IETE North Zone Centres**, namely Chandigarh; Aligarh; Noida; Jaipur; Pilani; Shimla and IETE Jammu Sub-Centre, came on a single platform for discussing developmental activities of IETE. Prof Rakesh Vaid, Prof Susheel Sharma, Prof Vinod Sharma, Dr Shubhmandan Singh, Dr Rockey, Dr Ajay Aggrawal, Sh Jasbir Singh, Dr Rakesh Gupta, Dr Suresh Rao, Ms Namrata Karlupia, Er Palak Mahajan, Ms Richha Sharma, Shri Vijay, Ms Preeti Rajput, Ms Akshita Abrol, Ms Verasis Kour, Ms Jyoti Sharma, Dr Anjana Sharma, actively assisted in the conduct of the Seminar.

The Zonal seminar was attended by the IETE fraternity from all over India besides faculty members from various colleges and universities, students and the scholars.

News from Centres/Sub-Centres

AHMEDABAD

● The Centre and IEEE AP/MTT, Gujarat Section, Ahmedabad, jointly organized a webinar on “**Engineers’ Day**” celebration on 20th Sep 2020. Welcoming the gathering, **Shri Sudhir Agarwal**, Centre Chairman, highlighted the importance of the Engineers’ Day and about IETE activities. **Prof (Dr) Pankaj Prajapati**, LD College of Engineering (LDCE), Ahmedabad and **Shri Sanjeev Kulshrestha**, Chair IEEE AP/MTT Gujarat Section, also graced the occasion. The 1st speaker **Dr Dharmesh Shah**, Dir, Technical Courses, Sankalchand Patel University, Visnagar, spoke on the topic “Focus Areas for Engineers towards Self Reliant India” centering his talk around the areas of artificial intelligence, edge computing, IOT, automated transport, V2V communication & required infrastructure, technologies with respect to human augmentation, VR and AR. The 2nd speaker **Shri Mayank Gajjar**, Dir, Pacemaker Solutions, chose to speak on “Cutting Edge To Edge Design, Development of Multi-Axis Antenna Positioning Systems” and focused his talk on technical requirements, specifications, production aspects of the topic and related projects on its state-of-the-art contributions in pursuit of making the country self-reliant. More than 40+ participants attended the webinar including IETE members, ISF student and IEEE members. Vote of thanks proposed by **Shri R M Makwana**, Centre Hony Secretary.

● The Centre celebrated its **Foundation Day** on 11th Oct 2020. The programme started with the welcome address by **Shri R M Makwana**, Centre Chairman, followed by reading of the message from Prof OPN Calla, Past President IETE for the day. The Chairman congratulated, **Shri Kaushal Buch**, IETE Ahmedabad member for receiving the best research oriented -IETE-CDIL Award-2020 for authors from the industry. Eminent members present during the online meet included: **Shri Urvil Suthar**, Centre Hony Treasurer; **Shri Kaushal D Buch**, Senior Engineer, Giant Metrewave Radio Telescope (GMRT), NCRA-TIFR, Pune, India. The latter delivered a talk on “Implementing and Characterizing Real-time Broadband RFI Excision System for the GMRT Wideband Backend”. Another expert present and addressed the participants was **Prof (Dr) Mihir V Shah**, HoD/EC, LD College of Engineering (LDCE) & FIETE, who chose to speak on “Low Power VLSI- Design”. About 50 participants attended including **Prof (Dr) Nilesh N Kasat**, West Zone Mentor; Centre Past Chairmen **Prof J V Dave**, **Shri MP Patel** & **Shri VK Jain** and **Shri Sudhir Agarwal**, Centre Immdt Past Chairman. **Shri N Venkateswaran**, Chairman, IETE Chennai Centre, also graced the event with his presence. The vote of thanks proposed by **Prof Sima Gonsai**.

● On 8th Nov 2020 the **67th IETE Foundation Day** was organized on **Emerging Technologies for Effective Management of the Pandemic** through Google Meet. The welcome address was delivered by **Shri R M Makwana**, Centre Chairman and

the message for the day from President IETE was read out by **Shri Sanjeev Kulshrestha**, Centre Hony Secretary. The Chief Guest **Shri A K Lal**, Dy Director, Systems Reliability Group (SRA), Space Applications Centre (SAC), in his address spoke on the importance of the theme highlighting SAC’s initiatives during pandemic situation. **Ms Neeta V Sheth**, Head Electronic Quality Control Division (EQCD), SAC/ISRO, graced the event as the Guest of Honour. The keynote speaker **Er Niraj Shah** from Arihant Satiat, shed light on the internet & video conferencing tools, online portals and apps used in medical, business, shopping, banking, IoT, drone, 3D printing, *etc.* He also showed robotics doing disinfecting works at hospitals and other places in pandemic situation with a video presentation. A talk was delivered by **Shri Madhukant Patel**, CTO, Teksun Group companies on “The Dynamics of Reliability Engineering in context of IoT Paradigm”. He explained the basics of reliability, conventional reliability and common practices to achieve reliability. Certain advanced level practices to increase the reliability of the system were also highlighted. More than 50 IETE members & students participated. Vote of thanks was proposed by Prof Sima Gonsai, Prof/LDCE & Centre EC member.

ALIGARH

● The Centre organized an **hands-on online training programme on Creation of Videos using Screen casting Software** on 29th Sep 2020 with **Mrs Savita Gautam**, Asst Prof/Computer Engg, Women’s Polytechnic, AMU, as the resource person. **Dr A Samad**, Centre Hony Secretary, presented an overview on the importance of creating online web resources and its uses, particularly amid Covid’19. About 37 participants pursuing Diploma/B Voc/M Voc courses, attended the programme. Vote of thanks proposed by Dr A Samad.

● The Centre celebrated the **67th IETE Foundation Day** on 5th Nov 2020 in online mode. **Dr A Samad**, Centre Hony Secretary, presented the overview of the programme and read out the message for the day sent by President IETE. In addition to his briefing on the activities of IETE Centre, he encouraged participants for taking membership of the institution. The welcome remarks were by **Prof Muzaffar A Siddiqi**, Centre Chairman, that mirrored the importance of the day. He underlined the soaring demand for online teaching and learning or organizational working modes, vide his address. Many senior members from the Centre, faculty of Dept EE, CE, Women’s Polytechnic and IETE corporate members attended the function that ended with a vote of thanks by Dr A Samad.

● A **webinar** was organized on 5th Nov 2020 wherein **Prof Muzaffar A Abbasi**, Centre Chairman, welcomed the participants. An overview of the programme was given by **Ms Savita Gautam**, webinar coordinator and AP/Computer Engg, Women’s Polytechnic, AMU. Later, she introduced the resource

person **Dr Rashid Ali**, Assoc Prof/Computer Engg, AMU, Aligarh. Dr Rashid Ali delivered his talk on the topic “**Role of machine learning in the effective management of the pandemic**”. It was an engaging talk attended by about 40 participants including faculty members & students from different engineering branches. Vote of thanks was proposed by Dr A Samad, Centre Hony Secretary.

BANGALORE

- The **IETE-IRSI (83) Awards Committee Meeting** was organized by IETE Bangalore Centre on 10 Oct 2020. The winners as declared by the Committee for the IRSI Awardees were:-

a) IETE-IRSI (83) Main Award- **Shri Viswam Gampala Sc ‘H’ LRDE- DRDO**

b) IETE-IRSI (83) Young Scientist Award –(i) **Dr Raghavendra Kumar Chaudhary**, Asst. Professor, IIT Dhanbad; (ii) **Shri Rahul Agrawal**, Sc. ‘D’ LRDE- DRDO

The results of the Award-2020 have been projected on IETE website: www.iete.org under IETE Awardees List 2020.

BHOPAL

- The Centre organised a webinar on **Future Engineering Education and Research** on 23rd Aug 2020, delivered by **Prof R K Shevgaonkar**, Vice-Chancellor, Bennett University, Noida, and Former Director IIT, Delhi and Former Vice-Chancellor, Pune University, Pune. The speaker stressed on the need for integration of engineering courses with non-engineering courses. Later, during Q/A session, Dr Shevgaonkar answered to lot of queries from the participants, which were more than 600 in number connected through Zoom and YouTube.

- The Centre in association with IEEE MP Sub-Section, IETE Gwalior Sub-Centre and IE (I) Gwalior Chapter, celebrated **Teacher’s Day** by organizing a lecture of **Prof K K Aggarwal**, Chairperson, National Board of Accreditation (NBA) and Former President of IETE on 5th Sep 2020. **Prof (Dr) J W Bakal**, President IETE graced the event as the Chief Guest.

- An online program on **Women Empowerment** was organized on 13th Sep 2020 in association with IEEE MP Chapter, IE (India) Gwalior Chapter and IETE Gwalior Sub-Centre. **Dr Manjaree Pandit**, Dean Academic, Madhav Institute of Technology & Science, Gwalior, was the Chief Guest. **Dr Muthmainnah**, Dir, Centre for Women’s Studies of University, Al Asyariah Mandar, Indonesia, delivered a talk on “The Growth of Women Empowerment during the virtual era” on the occasion. **Ms Pooja Sahoo** delivered the welcome remarks and **Shri R K Khetan**, IE(I) Gwalior Chapter, moderated the program. It was attended by more than 250 participants from different parts of the country including the USA. **Dr Karuna Markam** proposed the vote of thanks.

- Another online talk on “**मानसिक तनाव–कारण एवं निदान**”

was held on the same day and organized jointly by the sister societies as mentioned in above pointer. The talk was delivered by **Dr Gorakh Parulkar**, General Physician Doctor, Harda. The participants were welcomed by **Dr Pramod Kumar Singhal**, Centre Chairman, and the programme was moderated by **Shri R K Khetan**, IE (I), Gwalior Chapter. More than 150 participants attended along with their families from different regions. Technical support for the programme was provided by Shri Deep Kishore and Ms Pooja Sahoo.

- A five-day virtual **Faculty Development Program (FDP)** on “5G Technology: Concepts and Applications” was organized during 14th-18th Sep 2020 in association with Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Univ of Technology, Bhopal and Maulana Azad National Institute of Technology, Bhopal. Experts lectures delivered were by **Prof Aditya Jagannatham**, EE/IIT, Kanpur, on “Physical Layer Signalling and waveforms for 5G; and “Towards Enhancement Data Rates, Ultra Low Latency and Massive Connectivity” on 14th Sep 2020; by **Shri S Ramakrishnan**, Chief Technology Office, Nokia Network, India on “5G Technology and Architecture” on 15th Sep 2020; by **Prof K K Sharma**, EE/MNIT, Jaipur on “5G and IOT” on 16th Sep 2020; by **Dr Saif K Mohammad**, EE/IIT, Delhi on “Concepts of Massive MIMO” on 17th Sep 2020 and by **Shri Abhay Sawargaonkar**, Global Technical Head, Nokia Software on “Startup Innovation in 5G” on 18th Sep 2020. The program was attended by more than 50 faculty members from the different part of the country.

- The Centre celebrated **Engineers’ Day** by organizing a webinar on 15th Sep 2020. **Dr P K Singhal**, Centre Chairman, in his welcome address emphasized on the need for availability of essentials in the technical institutions for practical innovations of quality products within reasonable costs and for production purposes for communities. **Maj Gen (Dr) S C Jain, VSM (Retd)**, Director, Amity School of Engg & Technology, Amity University Gwalior (MP), was the Chief Guest. The addresses delivered were by **Sh R K Khetan**, Vice Chairman, IE(I) Gwalior Chapter, **Prof (Dr) C S Malvi**, Mech Engg, In charge-Innovation Cell, Madhav Institute of Technology & Science, Gwalior and **Er P Y Khanvilkar**, Chief Engineer (NHPC). **Dr R S Kushwah**, Amity University, Gwalior, moderated the program. It was attended by 160 engineers.

- The webinar on “**How to Write a Good Research Paper**” was arranged on 16th Sep 2020 in association with IES University, Bhopal. The eminent personalities delivering the talks included: **Dr J P Shukla**, Sr Scientist, AMPRI, Bhopal; **Dr Debabrata Samantha**, Christ University, Bangalore and **Dr Manoj Kumar Gupta**, Scientist CSIR-AMRI, Bhopal. About 200 students, research scholars and faculty members attended the webinar.

- Another webinar on **Phased Array Antenna** was held on 19th Sep 2020 in association with Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur. It saw

an informative discourse on Phase Array Antenna from **Prof P K Singhal**, Centre Chairman. The program was attended by more than 150 students and faculty members from different institutions.

- On 20th Sep 2020 another **virtual talk** on “Human Capital and Design Thinking” by **Dr (Ms) Worakamol Wisetsri**, Assoc Prof, Faculty of Applied Arts, Mongkut’s University of Technology, North Bangkok, Thailand, was organized in association with IEEE MP Sub-Section, IETE MITS Gwalior ISF and IE(I) Gwalior Chapter. It was attended by more than 600 participants from different regions.

- A **webinar** in association with MET Institute of Engineering, Nashik, was organised on 25th Sep 2020, wherein **Dr Rahul Dubey**, Dept of Electronics, Madhav Institute of Technology & Science, Gwalior, spoke on “Signal Processing Applications”. The program was attended by more than 100 students and faculty members.

- The Centre and Institute of Engg and Tech, Bundelkhand University, Jhansi, organized an **Online Working Model Competition (OWMC)** on 25th Sep 2020. In the competition 36 teams of students from eight (8) different states participated. **Prof J V Vaishampayan**, Vice-Chancellor, Bundelkhand University, graced the event as the Chief Guest. Lauding the conduct of an online competition, the Chief Guest said that such mode of contests would give opportunities to the students having interest in lab or project works to showcase their talents. **Prof S K Katiyar**, Dean Engineering, welcomed the overwhelming response received for the event. Seeing the success of the event, he announced another series to be organized in continuation with this OWMC competition. **Prof P K Singhal**, Centre Chairman, appreciated the efforts & support by the Bundelkhand University and congratulated the participants. He stated that IETE Centre was open to conduct similar type of innovative programs in conjunction. The colleges winning the competition were: **Anshuman College of Engineering, Nagpur (1st); Kanpur Institute of Engineering and Technology, Kanpur (2nd) and Guarana, Bikaner, Rajasthan (3rd)**. Two consolation prizes were given to the participants of **IET, Bundelkhand University Jhansi**. Vote of thanks was proposed by **Dr Anupam Vyas**, coordinator of the program.

CHANDIGARH

- The Centre celebrated **67th IETE Foundation Day** on “Emerging Technologies for Effective Management of the Pandemic” on 2nd Nov 2020 through web conferencing. The programme started with a two-minute silence as a mark of respect for **Dr S R Gowariker**, Past Chairman, IETE Chandigarh Centre (1986-1989) and former Director CSIR-CSIO Chandigarh, who had passed away on 30th Oct 2020. **Shri Subhash Chander Jain**, Centre Chairman, informed the audience about Dr Gowariker's major contribution specifically in getting the plot allotted from the Chandigarh State Administration, where the IETE building is now

situated. The welcome remarks from **Shri Subhash Chander Jain**, highlighted the achievements of the Centre. It included the IETE Chandigarh Centre attaining 2nd position in the IETE Best Centre Award category 2019-20. The Chairman appreciated tremendous efforts made by the Centre’s senior members (past & present) in establishing and elevating the standing of the Centre. He informed that more floors were being planned to be constructed at the Centre. **Dr P K Awasthi**, Centre Hony Secretary read out the President message. The technical talk by **Prof Harbinder Singh**, CGC Landran, Mohali, on “How Digital Image Processing can help to fight against COVID-19 Pandemic”, was very well received by the participants as they come up with several queries. **Dr Manoj K Patel**, Senior Scientist, CSIR-CSIO Chandigarh, and also the IETE-Hari Ramji Toshniwal awardee-2020 gave a presentation on “Electrostatic Disinfection Machine for Effective and Efficient Sanitization of Public Places against COVID-19”. The presentation of **Dr Umesh K Tiwari**, Principal Scientist, CSIR-CSIO Chandigarh and the IETE – CEOT awardee-2020 was on “Design and Development of Optical Fiber based Devices for Sensing and Communication Applications”. Both presentations were focussed on awardee’s winning works. Senior members felicitated during the celebrations were: **Prof S K Bhattacharya (F-101880)**, **Prof J S Sohal (F-027262)**, **Dr Anil K Aggarwal (F-086386)** and **Gp Capt (Retd) R C Goyal, VSM (F-063736)**. About 40 IETE corporate members including others attended. Vote of thanks proposed by **Shri DS Chhabra**, Centre Hony Treasurer.

- A workshop was organized on “**Innovative Technological Solutions to Societal Problems**” on 10th Nov 2020, virtually, in collaboration with the School of EEE and HRD Centre, Lovely Professional University (LPU), Jalandhar. It was inaugurated by **Shri Subhash Chander Jain**, Guest of Honour & Centre Chairman, who in his address gave a brief account of IETE, its activities and privileges on IETE membership. The role of IETE in disseminating quality information on the latest developments in the fields of Electronics, Telecommunications, IT and Computer Science Engineering, was emphasized upon. Aim of the workshop was to bring students, researcher’s experts and faculties on a common platform. Three experts who covered innovative technological solutions to societal problems through their talks included: **Dr Sanjeev Kumar Padmnabhan**, Faculty of Alborg University, Denmark, on “DC-to-DC Converters for Fuel Cell Vehicular Power Train–Power Electronics in Fuel Cell Technology”; **Dr Manoj Kumar Patel**, Senior Scientist, CSIR-CSIO, Chandigarh, on “Electrostatic Disinfection Machine (EDM) for effective and efficient sanitization of public places against COVID-19” and **Dr Rajesh Singh**, Prof and Head, Innovation Centre, LPU, on “Process of filing patents on innovative ideas and products”. Participants attending the workshop were from IITs, BHU, NIT’s; CSIR, KL University, Thapar University Patiala, MJP Rohilkh and University and from Govt & Pvt organisations. Talks were interesting and informative. Participants were awarded certificates at the end.

CHENNAI

● The Centre organized a **webinar** on 14th Aug 2020 through Google Meet in association with the ISF of Sri Venkateswara College of Engineering (SVCE), Chennai. **Shri Vishnusai R**, SVCE-ISF Hony Secretary, hosted the session. Welcome remarks were delivered by **Dr N Venkateswaran**, while introduction of the Chief Guest & keynote speaker was presented by **Shri Thanigaivel**, SVCE-ISF Hony Treasurer. The address of the keynote speaker **Shri K V Nagesh**, Founder & Management Director, Data Care Systems, was focused on different configurations of an engine- *i.e.*, its cooling, speed control, preheat control and brake control *etc.* He gave a pictorial representation of the electronic control unit (ECU) and explained the ECUs of heavy duty trucks. He said ECU was responsible for overseeing, regulating and altering the operation of electronic systems. Truck's electronic features, such as anti-lock braking system or electronic fuel injection setup were typically controlled via this unit. It uses input sensors and output components to control all engine functions. Presentation concluded with Q&A session. About 80 plus participants including faculty and students of five ISF colleges namely - Sri Venkateswara College of Engineering; Panimalar Institute of Technology; Easwari Engineering College; Jeppiaar Institute of Technology and Veltech Multitech Engineering College, attended the webinar. E-certificates were presented to all participants. Vote of thanks was proposed by **Shri Maurya V**, Chairman SVCE-ISF.

● A **Quiz competition on COVID-19 and AI Solutions** was organized on 5th Sep 2020 in association with six ISFs, namely - Sri Venkateswara College of Engineering (SVCE); Panimalar Institute of Technology (PIT); Easwari Engineering College (EEC); Jeppiaar Institute of Technology (JIT); SRM Institute of Science & Technology (SRMIST) and Veltech Multitech Engineering College (VMEC). This online event started with a word on 'Revering of Knowledge on Teachers' Day' by the organising team. **Dr N Venkateswaran**, Centre Chairman delivered a motivational talk. Competition was arranged in three rounds with increasing levels of difficulties. Questions were based on 'COVID-19' related to its symptoms, preventive care and actual treatment procedures. To offer AI solutions, questions were mainly kept on programming platforms, such as Python R. About 250 students registered their names from the participating ISFs. The winners of the competition were **Mr Jeffery R**, SRMIST, Kattankulthur Campus and **Ms Aparna**, Panimalar Institute of Technology (PIT). The winners were said to be awarded on the student's day function. Event was informative, interesting, and interactive.

● To commemorate the 160th Birth Anniversary of the Bharat Ratna Dr M Visvesvaraya, **53rd Engineer's Day** was celebrated jointly with the IE(I), Tamilnadu State Centre, Chennai, on 15th Sep 2020. About 85 members attended the event.

● An **online guidance session** on "Professional Resume Writing" was arranged on 17th Oct 2020 in association with

ISFs, namely- Easwari Engg College, SRM Institute of Science and Technology, Panimalar Institute of Technology, Vel Tech Multi Tech Dr Rangarajan Dr Sakunthala Engineering College, Jeppiaar Institute of Technology and Sri Venkateswara College of Engg, Chennai. Objective was to impart knowledge on how to build professional résumés with creativity. Being an interactive session, a lot of questions were asked and doubts cleared by the speaker. A brief note on functions of the ISF was presented by **Dr N Venkatewaran**, Centre Chairman followed by the keynote address of **Shri M Vigneshwaran**, Softskill Trainer and e-learning developer. Others present were: **Dr M Devaraju**, HoD/ECE Dept, Convener; **Dr D Jessintha**, Assoc Prof/ECE & **Ms T Gophika**, Asst Prof/ECE, Co-ordinators. E-certificates were issued to the participants (172) attending the event.

● The **67th Foundation Day** was celebrated on 2nd Nov 2020 virtually with ISF of Sri Venkateswara College of Engineering (SVCE), Chennai. The Chief Guest **Dr S Ganesh Vaidyanathan**, Principal, SVCE, in his address highlighted dissemination of technical knowledge being provided by the ISF and how they were aiming at bridging the gap between theoretical and practical industrial approaches. A technical talk on "Emerging Technologies for effective management during the pandemic" was given by **Shri Shubham Saraff**, AI Startup Founder, who elucidated about the advanced technologies being utilized during COVID pandemic. Dignitaries present on the occasion were: **Dr N Venkateswaran**, Centre Chairman; **Dr Tata Sudhakar**, Group Head, Ocean Electronic Group, NIOT; **Dr V Vaidehi**, Vice-Chancellor, Mother Teresa Women's University; **Shri M Natrajan**, Former GM, BSNL Chennai; **Shri K H Shakthi Murugan**, Centre Hony Secretary and **Ms T J Jeyaprabha**, Centre Hony Treasurer. The awardees facilitated on the occasion were- **Dr M Murugan**, Vice Principal, SRM Valliammai Engg College, Chennai, and the winner of IETE-Prof K Sreenivasan Memorial Award (2014); the IETE Organizational Member- **Sairam Institute of Technology, Chennai** for winning IETE-Shri P P Malhotra Memorial Award (2020) and the dignitaries **Dr S Ganesh** and **Mr Shubham Saraff**. About 80+ members participated.

HYDERABAD

● A number of **webinars** under Knowledge Sharing Sessions (KSSs) were organized and received overwhelming response. KSS-1 was on "The Role of Electronics Engineering Fraternity in carving a super Techno Power India" on 26th Jul 2020. **Dr Narayanan Namboodiripad**, Outstanding Scientist/ Dy Dir, VSSC (AVN), Trivandrum, was the keynote speaker, who explicated on a super techno power India- a vision that every Indian engineer dreams of and would sincerely like to contribute achieving it. KSS-2 was conducted on "IoT-its evolution, objectives and implementation" on 2nd Aug 2020, by **Prof C R Sarma**, WILP-BITS-Pilani. He mentioned about revolutionary developmental changes bringing newer improved techniques and methods for managing events by sensing, analyzing the data and deployment. The concept & applications of Internet of Things

were explained by him. KSS-3 on “Missile Technology, Indian Initiative” was held on 9th Aug 2020. It was graced by **Prof (Dr) J W Bakal**, President IETE as the Chief Guest. **Prof KSR Murthy**, Former Scientist ‘G’, DRDL, Hyderabad, the keynote speaker, covered the topics of early development in missiles; guided missile development programme; missile subsystems and purpose; missile development instrumentation requirements and flight trial instrumentation. Under KSS-4 topic theme “Wireless Sensors Networks & Applications” was covered by **Dr Nukala Srinivasa Rao**, Prof & Head ECE, Matrusri Engg. College, Hyderabad, on 16th Aug 2020. **Dr D C Pande**, Zonal Mentor (South Zone) & GC member, was the Chief Guest in the Session. The webinar under KSS-5 was conducted on “Disruptive Technologies and its Dual Applications” on 30th Aug 2020. **Dr Basvaraj Gadghey**, Governing Council member was the Chief Guest. **Shri Anupam Tiwari**, Sr Member IETE spoke on the theme as a keynote speaker. The webinar under KSS-6 on “The Scientific Payloads of ISRO, from Sounding Rockets to Moon, Mars and beyond” was held on 6th Sep 2020 with **Sri P Pradeep Kumar**, Head, Instrumentation and Scientific Payload Section, Digital Systems Group, VSSC, ISRO, Dept of Space, Trivandrum, as the keynote speaker. **Dr Niranjan Prasad**, GC member, was the invited Chief Guest. **Dr S P Venu Madhava Rao**, Prof & Head/ECE, MVSR Engg College, Hyderabad, was the keynote speaker in KSS-7, conducted on “Semiconductor Device Modeling” on 13th Sep 2020. The Chief Guest **Dr G Ramesh**, GC member, graced the event. The webinar under KSS-8 was on “Transforming to the Next Level (Campus to Corporate)” delivered by **Prof M L Saikumar**, Former Dean (Academics), Institute of Public Enterprise, Hyderabad, on 20th Sep 2020. The Chief Guest gracing the occasion was **Dr K Lakshminarayana**, Past Vice President IETE. The next session arranged under the series was on “EW for combating Communication order of Battle (COB)” on 27th Sep 2020, delivered by **Shri P Narasimha Rao**, Former Scientist-G, DLRL (DRDO). **Prof S Narayana**, Past President IETE was the Chief Guest in the webinar. The webinar under KSS-10 was kept on “Problem solving skills with case studies” on Oct 4, 2020 by **Prof A Gopal Sharma**, Head, ECE, Stanley College of Engg and Technology for Women, Hyderabad, Telangana. The dignitaries included **Prof (Dr) K T V Reddy**, Immdt Past President IETE, **Dr K P Srinivasa Rao**, Chairman, Matrusri Education Society, and **Dr D Hanumantha Rao**, Principal, Matrusri Education Society. Webinar under KSS-11 was on “Electronic Communications and Its Variations in Process Industry” organized on Oct 18, 2020 and delivered by **Mr Christopher John**, Engineer, NAVATEJ Technologies, Hyderabad. The Chief Guest was **Shri Satyakumar Palli**, CEO, Data Teach Labs. The KSS-12 on “Introduction to UI/UX Design” was held on Nov 29, 2020 with **Shri N V S Navadheer** UI/UX Designer & **Shri T Jai Surya Sandeep** UI/UX Designer, as resource persons. Event was graced by **Sri P Subba Reddy**, Chairman, GNITS and **Smt G Srividya Reddy**, Secretary, GNITS. KSS-13 on “Fractals Modeling Applications in Electrical & Electronics Engineering”

was organised on Dec 6, 2020 by **Shri Anupam Tiwari**, Senior Member –IETE. **Mr Christopher John**, Engineer, NAVATEJ Technologies, Hyderabad delivered the KSS-14 on “Recent Field-Bus Technologies and its Scope” on Dec 27, 2020.

- The Centre conducted **5th Memorial Lecture of Prof C V S Rao** on “Latest Trends in Information Technology and Power of Open Source Software” on 23rd Aug 2020, delivered by **Dr Soumen Kumar Roy**, Scientist ‘G’, Technology Director IT, DRDL Hyderabad. **Dr D C Pande**, Zonal Mentor (South) & GC member, was the Chief Guest. Other dignitaries present during the event were: **Er K Gnaeshwar Rao**, Centre Chairman, **Er Nuli Namassivaya**, Centre Hony Secretary, **Prof C R Sarma**, Centre Hony Treasurer. Participants included EC, Corporate, GC members and the invitees.

- The theme for celebrating the **Teachers’ Day & Engineers’ Day** was on “Teachers Role in Digital Era & Fighting COVID with UVC LEDs Made in India” on 13th Sep 2020 through zoom. **Brig (Dr) V D Abraham, SM (Retd)**, GC member, was the Chief Guest. **Shri K Vijay Kumar Gupta**, CEO Quality Photonics LED Chip Indus P Ltd, Hyderabad, the Guest of Honour, spoke on “Fighting COVID with UVC LEDs, Made in India” while **Prof B Rajendra Naik**, Prof & HoD/ECE, University College of Engg, Osmania Univ, Hyderabad, the other Guest of Honour, spoke on “Teachers Role in Digital Era”.

- The **47th IETE Foundation Day** & webinar under **Memorial Lecture of Prof K K Nair** was organized on “Marine Navigation and Communication: Past, Present and Emerging Trends in India” on 11th Oct 2020 and was delivered by **Prof A D Sarma**, Director (R&D) CBIT, Former Director NERTU, Osmania University, Hyderabad. The event was graced by **Dr T H Chowdary**, DFIETE & Past President IETE.

- The **17th Shri M Madan Mohan Memorial Lecture** on “Mechatronics Systems” was delivered by **Dr S Karunanidhi**, Outstanding Scientist and Associate Director, Research Centre Imarat (RCI), DRDO, Hyderabad, on 21st Oct 2020. **Shri A K Sangamker**, Centre Vice-Chairman, welcomed the gathering and the opening remarks were given by **Er K Gnaeshwar Rao**, Centre Chairman. **Er Nuli Namassivaya**, Centre Hony Secretary informed briefly on the memorial lecture. **Dr P Naveen Kumar**, Chairman, R&D and Industrial Coordination (RDIC) Sub-Committee introduced the speaker. Vote of thanks was proposed by **Ms C V Keerthi Latha**, Chairman of Short Term Courses & Seminars, Sub-Committee.

- The **67th IETE Foundation Day** was celebrated on the topic of “Emerging Technologies for Effective Designation Management of the Pandemic” on 1st Nov 2020 and presented by **Prof Joy Mammen**, Assoc Director, CMC Vellore, as the keynote speaker. President IETE, **Prof (Dr) J W Bakal**, graced as the event.

- The **9th Prof S Narayana Endowment Lecture** on “High Power Electromagnetics (HPem) and Intentional Electromagnetic Interference (IEMI)” was delivered on 1st Nov, 2020 by **Dr D**

C Pande, Former Outstanding Scientist & Associate Director, LRDE Bangalore, Zonal Mentor (South) & GC Member IETE. The President IETE graced the event.

- A two-day **workshop** on “Artificial Intelligence Using Machine Learning & Deep Learning” by **Shri R Jishnu**, Senior Project Engineer was organized on 7th -8th Nov 2020.
- The **4th Late Prof Alladi Prabhakar Memorial Lecture** was delivered by **Prof G Kumaraswamy Rao**, Former Director DLRL DRDO, Chief Designer for Electronic Ground Guidance System TRISHUL, Chief System Integrator AKASH weapon, on the “A Technical Perspective on India’s First Quick Reaction Short Range Surface to Air Missile Trishul” on 22nd Nov 2020.
- A two-day **workshop** on “Image Processing and Computer Vision with MATLAB” was convened by **Shri Satya Kumar Palli**, CEO, Data Teach Labs on 12th -13th Dec, 2020.
- The **4th Late Prof Ganti Subrahmanyam Memorial Lecture** on “Disaster Recovery and Business Continuity Planning” was held on 20th Dec 2020 by **Shri Srinivasu Gorti**, Director-Technical, Akshara Enterprises India Pvt. Ltd.
- **IETE Virtual Industry Visit** to Kwality Photonics & LED chip Indus P Ltd was organized on 26th Dec 2020 with the help of **Shri K Vijay Kumar Gupta** CEO, Kwality Photonics & LEDchip Indus P Ltd.

INDORE

- The Sub-Centre celebrated IETE’s **67th Foundation Day** by arranging a talk by **Dr Sudeep Budha**, BITS Pilani, on 2nd Nov 2020. The speaker in his address on “Emerging Technologies for the Effective Management of the Pandemic”, informed how the spread of Covid-19 pandemic took everyone by surprise and majority of governments failed to judge its magnitude & take corrective measures in time. The Govt was not able to add resources and deploy the latest technologies immediately. The situation thus triggered an unprecedented demand for critical resources and the need for adoption of technologies to combat through. The speaker emphasized on the importance of technologies used mostly during the crisis *viz.*, in population screening, infection tracking, vaccine development, effective quarantine, prioritizing and allocation of resources, and in designing targeted responses. To avoid coming in contact with human beings and physical objects, which may be potentially infected, several innovative and emerging technologies were considered by the health-care authorities to protect their workers and to deliver treatment and other facilities to the needy patients. The talk delivered was valuable for the participants.

JAIPUR

- The IETE Jaipur Centre, the ECE Dept of Jaipur Engg College & Research Center (JECRC), Jaipur, the BYJU’s Career Labs, in association with IEEE Rajasthan Sub-Section, jointly organized a **webinar** on “Imperative Ideas and Challenges for the Profession Development in Industries and Tertiary Education” on

14th Aug 2020. It was coordinated by **Dr Sandeep Vyas**, HoD/ECE, JECRC Jaipur, and moderated by **Shri Jaiverdhan**, AP/ECE, JECRC, Jaipur. **Shri Abhishek Gupta**, Head of speakers & Manager-Strategic Partnership, (BYJUS Career Labs) was the keynote speaker. About 140 members attended the webinar. Different career opportunities with eminent institutes in India and outside, for higher education, was informed to the participants with advise to seize opportunities, making most of the pandemic time. They were guided to craft their career journeys over a wide range of preparatory programs available for national/international entrance exams, as well as admissions consulting services for Graduate and Business Schools, both abroad and in India. Some of the sessions conducted were: In & out of the competitive exams; Various career opportunities; Productive utilization of Covid period for academics & competitive exams; Why and why not approach?; Many arrows in one quiver; Art of making effective notes; How to face different phases of recruitment (Written Test/GD/Interview); How to get into Fortune 500 Companies; Profile Building for Higher Education; Technical Profile boost for Placements; Top Masters with 100% Scholarships. Students were encouraged through proper guidance & positive vibes and finally distributed e-certificates.

- The **2nd International Conference on Communication, Optical, and Microelectronics: The Emerging Trends-2020 (ICCOMET-2020)** was organized by the Dept of ECE, Jaipur Engg College and Research Centre (JECRC) on 27th-28th Aug 2020 in association with IETE Jaipur Centre and OSA Student Chapter-JECRC. The conference was inaugurated by **Prof R A Gupta**, Vice-Chancellor, Rajasthan Technical University (RTU) Kota, India, Chief Guest for the occasion. The Guests of Honour present included: **Prof Saifur Rehman**, Dir, Advanced Research Institute, Virginia Tech, USA; **Mr Adam Walls**, Business Architect, Program Mngr, London, UK; **Mr April Staffa**, Business Dev. Mngr, Ingenia Polymers, Texas, USA; **Prof (Dr) Raphael A Guerrero**, Ateneo de Manila University, Philippines; **Dr Anna Khan**, CEO Suslence Research, Qatar; **Dr Anand Nayyar**, Prof and Scientist, Duy Tan University, Vietnam and **Prof (Dr) M N Hoda**, Dir, BVICAM, New Delhi and Chairman, TPPC, IETE. This conference was aimed at bringing together the innovative academicians, researchers, and industry experts in the field of communication, optics, photonics, and microelectronics, for a constructive discussion on theoretical concepts and practical ideas. 57 papers were selected out of 150 papers, submitted from various universities/colleges and were to be published in the special issue of International Journal of Scientific Engineering & Research (IJSER) (Vol 11, Issue 9, Sep-2020, ISSN 2229-5518). **Dr Guerrero** in his address enlightened the audience on the significant role of optical signals that consisted of a series of pulses produced by switching laser beams on & off. **Dr Nayyar**, in his talk outlined the importance of wireless sensor networks, mobile adhoc networks, swarm intelligence, cloud computing, network security, software engineering, simulation tools, information systems, embedded systems and future computing technologies

in low power consumption, portable computing devices, high-performance computing, internet of things (IoT).

The technical sessions in the conference were on communication, optics, nanoscience and other recent research areas. The event was spread over two days. The sessions were chaired by **Dr Nikhil Deep Gupta**, AP/ECE, NIT, Nagpur; **Dr Lokesh Tharani**, Assoc Prof/ECE, RTU, Kota; **Dr Amit Garg**, AP/ECE, IIT, Kota; **Shri Kamlesh Kumar Samota**, Scientist-B (Asstt Dir), NIELIT, Ajmer; **Dr Sanjeev Yadav**, HoD/ECE, GWEC, Ajmer; **Dr Ashok Kumar**, AP/ECE, GWEC, Ajmer; **Shri Rajesh Raj**, AP/ECE, Engg College, Ajmer; **Dr Shanky Saxena**, AP/ECE, LPU, Jalandhar and **Dr Lakhan Dev Sharma**, AP/SOE, VIT, Andhra Pradesh. **Dr Sandeep Vyas**, Convener, ICCOMET-2020 and HoD / E&C, JECRC, Jaipur, appreciated the efforts made by the dept. in organizing the event. **Dr Parul Tyagi**, Co-Convenor, acknowledged the significance of the conference conducted and interest shown by the presenters in presenting their papers. It was beneficial for researchers and students from point of view of improving their technical skills and project works. **Dr VK Chandna**, Principal JECRC, expressed heartfelt gratitude to the resource persons, participating researchers, students and organizers for their participation and sharing knowledge. The conference was technically sponsored by the International Journal of Scientific Engineering & Research (IJSER).

JAMMU

IETE Jammu sub Centre provided **Technical collaboration for International Conference Riset-2020** on the theme - **Industry 4.0 Generation**. The Yogananda College of Engineering & Technology (YCET), Jammu, organised 2nd International Conference Riset-2020 in online mode in collaboration with IITT Bombay, Department of Electronics, University of Jammu, and IETE Jammu Centre. The theme of the conference was Industry 4.0 Generation. **Prof Manoj Kumar Dhar** was the Chief Guest of the inauguration, which was attended by several internationally renowned experts like - **Prof Adrian Hopgood**, University of Portsmouth, UK; **Dr Bipin Kumar Rai**, HoD, ABES, Ghaziabad; **Prof Vivek Borkar**, IIT Bombay, Mumbai; **Dr Richa Bhargava**, ICFAI Business School, Gurgaon; **Dr Balakrishna Ananthoju**, UK; **Prof J V Aghav**, College of Engg., Pune; **Prof David Al-Dabass**, School of Computing & Information, Nottingham Trent University, UK; Mesfin Belachew (PhD), Ministry of Innovation Technology, Ethiopia; **Ms Shyama Iyer**, National Coordinator- Training, IITB-ST; **Prof Parveen Kumar Lehana**, Head, Department of Electronics, University of Jammu; **Prof Pawanesh Abrol**, Professor, Department of Computer Science & IT, University of Jammu and Chairman, IETE Jammu Sub-Centre. **Prof Manoj Kumar Dhar**, in his address appreciated efforts by the organizers and said that the theme chosen for the conference was relevant particularly when the Govt was emphasizing on skill based and courses of high technology. Earlier, **Er Vidhi Singh Jamwal**, Chairman, Jamwal Group of Educational Institutes, while welcoming the

Chief Guest and participants emphasized the vision of YCET, which was to strive for the academic excellence. **Dr Anoop Srivastava**, Director, YCET, outlining details said that a total of 27 papers were selected out of 100 research papers for publication in high quality renowned journal International the *Journal of Scientific and Technological Advancements (IJSTA)* after standard checks/ review process. He said that it is expected that the Fourth Industrial Generation will use 'digital Reality' to change conventional business practices, consumer behavior, operation decisions, and product precision. Adding further, he said it will also change the employment environment requiring excellence of skill and level of knowledge. The conference offered excellent platform for discussions, exchange of views, ideas, and shared information on the subjects of technological relevance. IETE Jammu Sub Centre technically collaborated for the conference in which various keynote speakers delivered talks. **Er Vijay Sharma**, Hony Secretary, IETE Jammu Sub-Centre, chaired a technical session in the conference. Various scholars, students presented their project and research work. The inauguration ceremony was attended by **Prof Rakesh Vaid**, faculty members of University of Jammu, Principals of Polytechnics, **Shri Joy Ganjoo**, **Er Samiir Sharma** both Vice Chairman, IETE Jammu Sub Centre, besides Fellows/ members of IETE, faculty members and students from engineering, professional streams.

KANPUR

- The Centre jointly with IE (I), Kanpur local centre and IEEE, UP section, celebrated **53rd Engineers Day** on 15th Sep 2020 in online mode. **Prof (Dr) Ashok Kumar Tiwari**, Vice President, Quality and Technical Services, Ultra Tech Cement Ltd., graced the event as the Chief Guest and **Prof Sri Niwas Singh**, Dept of EE, IIT Kanpur, as the Guest of Honour. **Prof J Ramkumar**, Chairman, IE (I) & Centre Hony Treasurer, delivered the welcome address. **Prof Narendra Kohli**, Centre Chairman, in his address presented life sketch of the Bharat Ratna, Sir Mokshagundam Visvesvaraya, in whose memory the day is celebrated. The Centre Hony Secretary, **Er Prashant Kumar**, introduced **Prof Niwas Singh**, who spoke on "Building Academic Institutes in a Sustainable Approach". The speaker was of the view that in order to sustain an institute, work should be done on every level, *i.e.*, towards students knowledge development, their exposure to the external world, research, generating fund for the institute, building stress free environment, providing better medical facilities to faculty members and working in sync of various depts. **Prof (Dr) Ashok Kumar Tiwari**, in his lecture on "Responsibility/Role of Engineers after COVID-19 Pandemic" emphasized on the aspects of self dependence, professional ethics and availability of resources. He highlighted the importance of working in harmony for bringing out maximum benefits. About 60 members attended.
- The Centre celebrated **World Habitat Day-2020** jointly with the IE (I) Kanpur Local Centre; Dept of Civil Engg, HBTU, Kanpur; Prism Johnson Ltd, Kanpur and IEEE, UP Section, virtually on "Housing For All: A Better Urban Future",

on 5th Oct 2020. **Er Anurag Sharma**, Regional Technical Head, Prism Johnson Ltd., Kanpur, was the Chief Guest & theme speaker for the day. In his address, he stressed on the need for empowerment of communities, provisions of safety, affordable housing, and basic services to all. According to him the agenda of all cities and countries around the globe should be to upgrade the slums by 2030. Other dignitaries present were: **Prof Narendra Kohli**, Chairman, IETE, Kanpur Centre, **Prof J Ramkumar**, Chairman, IE(I) and Centre Hony Treasurer and **Er Prashant Kumar**, Centre Hony Secretary. The program concluded with the vote of thanks.

- The **World Standards Day** was celebrated jointly with the IE (I) Kanpur Local Centre and IEEE, UP Section on “Housing For All: A Better Urban Future” on 16th Oct 2020 via digital mode. **Dr K Gopalkrishnan**, Dean (R&D), New Horizon College of Engineering (NHCE), Bangalore, graced the event as the Chief Guest & theme speaker. Other dignitaries present were: **Prof S N Singh**, Former, Vice- Chancellor, MMM Technical University, Gorakhpur, UP; **Prof Narendra Kohli**, Centre Chairman; **Prof J Ramkumar**, Chairman, IE (I), Kanpur Local Centre and Centre Hony Treasurer and **Er Prashant Kumar**, Centre Hony Secretary. **Dr K Gopalkrishnan**, highlighted the significance of 3S! *i.e.* Standardization, Simplification, Specialization, through his address. He said the gravity of significance plays the important role to control the addition of natural green house gases on earth. The standardization shows the process of setting standards of the every business activity; be it standardization at the process of raw material, time, product, machinery, methods or working conditions *etc.* simplification shows the eliminating unnecessary diversity of products and specialization shows the natural outcome of simplification and standardisation. He also mentioned how WWII helped many countries to standardize their products. The program concluded with the vote of thanks.

- The Centre celebrated **67th IETE Foundation Day** on 2nd Nov 2020 in association with IE(I) Kanpur Local Centre & IEEE, UP Section through virtual platform. The participants were welcomed by **Prof Narendra Kohli**, Centre Chairman. Centre Hony Treasurer, **Prof J Ramkumar**, read out the President’s message for the day. **Shri Nikhil Riyaz**, Founding Director, TSC Technologies Pvt. Ltd, the Chief Guest & keynote speaker, delivered his talk on “Emerging Technologies for Effective Management of the Pandemic”. He delineated the salient features of Space 4.0 and New Space Era and informed how the emerging technologies were breaking the monopoly of Federal / Central Government sponsored research/space programs and giving chance to everyone. He explained that the New Space Era with emerging technologies had changed entire space programs, making it affordable even for small nations / Institutions giving global collaborative opportunities. Vote of thanks was by **Er Prashant Kumar**, Centre Hony Secretary.

- The Centre organized a **webinar** jointly with IE (I) Kanpur Local Centre; IEEE, UP Section; Med Tech; IIT Kanpur and

Incubation Hub, Harcourt Butler Technical University, Kanpur, on 6th Dec 2020. **Shri Vikram Singh Rana**, Founder and CEO of McGeeks Mechatronics, the Chief Guest, delivered his speech on “Entrepreneurship & Product Development in pandemic times”, while **Shri Vyom Sharma**, Research Scholar, Dept., of Mechanical Engineering, IIT Kanpur, was the Guest of Honour, and spoke on “How COVID-19 is accelerating the change in the World”. Other dignitaries present were: **Prof Narendra Kohli**, Centre Chairman; **Prof J Ramkumar**, Chairman, IE (I) KLC and Centre Hony Treasurer and **Er Prashant Kumar**, Centre Hony Secretary.

KOCHI

- The Centre observed **67th IETE Foundation Day** jointly with the ISF at Model Engineering College on 2nd Nov 2020 through virtual platform. Welcome address was by **Ms Ansiya Eshack**, Hony Treasurer. **Shri C Krishnakumar**, Centre Chairman, spoke on the relevance of the day and read out the message from President IETE. Sr Fellow Member **Shri M N Narayanan** (F- 016308) was felicitated on this occasion by **Dr R Gopikakumari**, Centre Past Chairperson. **Dr M V Rajesh**, Centre Vice Chairman, introduced the Guest Speaker, **Shri Aravind Warriar**, Head of HR Dept, Rapid Value Solutions, Cochin, who spoke on the theme, “Emerging Technologies for Effective Management of the Pandemic”. **Ms Manju Bhaskar**, Hony Secretary proposed vote of thanks.

KOLKATA

- The Human Resource Development Centre, IEM UEM ([portalhttp://iemhrdc.com](http://iemhrdc.com)) launched a 4-week 36-hour duration online certified **Faculty Development Courses** in various phases in collaboration with TCS and IETE Kolkata Centre during Apr-Aug 2020. It was a unique program that provided an esteemed online platform to inspire fellow teachers and professionals to generate innovative and fresh ideas for reaching out to students and clients in distinct constructive and enthusiastic ways. The phase-wise courses undertaken during the 1st phase in Apr-May 2020 were on “IoT and Machine Learning hands on for Beginners Digital Marketing”. About 90 members participated. The 2nd phase was from May-Jun 2, 2020 on “Cryptography & Block chain Basics Machine Learning using Python” with participation of about 150 members. In the 3rd phase, which was conducted during Jun-Jul 2020, the courses were on “Cyber Security, Cloud Computing and Natural Language Processing for Professionals” with participation of about 200 members. The 4th phase during Aug-Sep 2020, continued the Basic Course on Data Science using Statistics IP Innovation & Entrepreneurship, Financial & Cost Accounting. All the video lectures were uploaded on the IEM Learning online platform. In addition, instructor led doubt clearing live classes were taken up followed by weekly tests and final examination. Score cards were added on the site. Special lectures from industry were also arranged for the benefit of the learners.

- The Centre organized an online two-day **International Conference on Contemporary Issues in Computing (ICCIC 2020)**, during 25th-26th Jul 2020 in association with the Electro Inventor, Hooghly (WB) and Gargi Memorial Institute of Technology (GMIT)/(JIS), Kolkata. The speakers present during the conference included: **Prof L M Patnaik**, Emeritus Professor, IISc, Bangalore; **Dr Zdzislaw Polkowski**, Rector's Representative for International Cooperation and Erasmus Programme in Jan Wyzykowski University in Polkowice, Poland; **Prof (Dr) Mike Hinchey**, University of Limerick, Ireland President, IFIP and **Dr Biswajit Ghosh**, Vice Chancellor, The Neotia University, Kolkata, West Bengal, India. **Dr Jyotsna Kumar Mandal**, Centre Chairman, was the Publication Chair of ICCIC-2020. **Prof (Dr) J W Bakal**, President, IETE addressed the participants on 25th Jul 2020. More than 100 participants attended and a total of 41 papers were presented out of 60 registered papers during the conference.

- A **webinar on Women Empowerment** was arranged on 16th Aug 2020, inaugurated by **Prof (Dr) J W Bakal**, IETE President. **Prof (Dr) Samita Manna**, Former Vice-Chancellor, Sidho-Kanho-Birsa University, Purulia, West Bengal, as the domain expert, delivered a keynote address on the topic "Women Empowerment: A Changing Face of Contemporary Society". **Shri Ajay Kumar**, Zonal Mentor (East) & Governing Council Member, IETE, addressed the participants, as the Guest of Honour.

- Another **webinar** held was on **Forecasting of Epidemic Trend of COVID-19** on 21st Aug 2020, inaugurated by **Prof (Dr) J W Bakal**, President IETE. **Dr Debabrata Datta**, Former Scientific Officer & Head Radiological Physics & Advisory Council of Health Safety & Environmental Group, BARC, Mumbai, delivered the keynote address on "Development of a Graph Theoretic Based Networked Model for Forecasting of Epidemic Trend of COVID-19". Others notables included were: **Shri Ajay Kumar**, Zonal Mentor (East), the Guest of Honour and **Shri K K Thakur**, CGM, Ranchi Telecom, Jharkhand, Chairman IETE Ranchi Centre, as the special guest. More than 60 participants attended.

- The Center jointly with the Computer Society of India, Kolkata Chapter, organized a **webinar on Therapeutic Goals of COVID -19** on 30th Aug 2020. **Dr Sayantan Chakraborty**, Coordinator COVID Care Network, **Shri Pulak Pal**, Social Worker, **Shri Amitava Basu**, Secretary Smriti Raksha Committee, were the eminent personalities present in the event. **Shri Bidyut Kumar Bannerjee**, Psychologist, Founder Secretary Manobik and **Dr Sekhar Ranjan Pal**, Sr Resident Doctor ID&BG, Beliaghata Hospital, delivered the keynote addresses. Other speakers were: **Prof (Dr) J W Bakal**, President IETE; **Shri R K Vyas**, President, CSI(I) and Chairman, IETE Publication Committee; **Prof (Dr) A P Thakare**, Chairman TPPC and **Shri Ajay Kumar**, Zonal Mentor (East) IETE. The sessions were informative and useful.

- **Dr Tanushyam Chattopadhyay**, Principal Scientist, TCS

Innovation Lab, Kolkata, India, was the keynote speaker on the occasion of **Engineers' Day**, celebrated virtually on 15th Sep 2020 by the Centre. His talk was on the topic "Use of AI in Healthcare and Manufacturing Industry". **Prof (Dr) J K Mandal**, Centre Chairman, delivered the welcome address. **Prof (Dr) A P Thakare**, Chairman TPPC, inaugurated the program and delivered the inaugural address. **Prof (Dr) A K Mukhopadhyay**, Vice Chairman, IETE Kolkata Centre, gave his insight on the theme. The closing remarks were given by **Prof (Dr) J K Roy**, Centre EC Member. About 50 members attended.

- Another **webinar** on "Protection from Coronavirus Second Wave" was organized jointly by the Centre and CSI, Kolkata, on 17th Oct 2020. About 50 participants including members from CSI, IETE, local doctors and social workers, attended.

- The **67th IETE Foundation Day** was organized as a **webinar** on "Emerging Technologies for Effective Management of the Pandemic" on 2nd Nov 2020 wherein **Prof (Dr) Biswanath Chatterji**, Former Professor, E & ECE, IIT Kharagpur, addressed the participants as the keynote speaker. About 70 participants attended.

- The Centre and the Computer Society of India, Kolkata Chapter, jointly organized a **webinar** on "COVID-19 Impact on the Indian Economy" on 13th Nov 2020 through online mode. **Prof (Dr) Anil Bhumali**, Vice Chancellor, Raiganj University (WB), was the invited keynote speaker. Other dignitaries present and addressed the august audience were: **Prof (Dr) J W Bakal**, President IETE; **Shri R K Vyas**, President CSI and IETE Governing Council member ; **Prof (Dr) A K Nayak**, Immdt Past President, CSI, Mumbai, and **Shri Ajay Kumar**, Zonal Mentor (East) and GC Member, IETE.

KOZHIKODE

- The Sub-Centre organized a **webinar on Career Opportunities after Engineering** on 15th Jul 2020 in association with the Dept of ECE, MES College of Engineering, Kuttipuram. **Shri Mahipal Reddy Mandadi**, Sr Manager, Strategic Marketing, ACE Engg. Academy, Hyderabad, was the resource person. The webinar started with a welcome note and the speaker's introduction by **Prof (Dr) Mredhula L**, ECE, MES College of Engineering, Kuttipuram and Sub-Centre Hony Secretary. **Shri Reddy** explained the career & competitive exam opportunities available for engineering graduates, namely GATE, ESE, PSUs jobs, State Service Commission, IT/Private sector jobs *etc.*, in his address. He discussed direct and indirect benefits, salient features of all competitive exams with respect to the standard pattern, eligibility criteria, and branches available with strategies for competitive exam preparation. It was a thought provoking and inspiring session for attendees. Question/answer session benefited the participants. About 62 members attended. The talk was primarily for BTech final year and passout students who were seeking higher studies. Vote of thanks proposed by **Dr Shilpa Suresh**, AP, ECE Dept and coordinator for the program. The

feedback received from the participants was encouraging.

- The Sub-Centre organized a five-day **workshop on Artificial Intelligence & Robotics** during 17th-21st Aug 2020 in association with Regional Science Centre (RSC) & Planetarium, Calicut. It was inaugurated by **Shri Manash Bagchi**, Curator 'E' and Project Coordinator, Regional Science Centre & Planetarium, Calicut. **Dr Sabiq P V**, Sub-Centre Chairman, presided over the function. **Shri Jayanth Ganguly**, Member, delivered the welcome remarks. The workshop was targeted for young students and others interested to get an overview of the studies being done in the field of AI and Robotics. On **Day 1**–**Dr Sheik Mohammad**, TKM College, spoke on “Introduction to AI & Engineering Innovations”; on **Day 2**–**Shri Joyel George**, RSC Calicut, spoke on ‘Basics of Robotics using Aurdino’; on **Day 3**–**Shri Satadal Ghose**, CRTL Kolkata, articulated on ‘Trained to Talk – develop a chat box that learns and talks to you’; **Day 4** saw **Dr Praveen Shankaran**, NIT Calicut, expressing his views on ‘Learning & Classification’ and on **Day 5**–**Shri Jayant Ganguly**, RSC Calicut, accentuated ‘Fuzziness–Quantization & Formalization’. All talks were demonstrative and interactive and witnessed participation around 40 to 50 members.

- A **webinar** on how to “Avoid Covid 19 Anxieties” was organized on 4th Jun 2020 with the expert **Shri Vinod Mithran**, Business Coach, a mentor and motivational speaker, who explained how to fight dangerous Covid situation with the help of sympathetic and parasympathetic nervous systems. He also mentioned the vicious circle of Negative Automatic Thoughts (NATs) and 4-A Principles. **Dr Sabiq P V**, Centre Vice-Chairman, welcomed the participants in the beginning. The session was excellent and attended by 45 participants.

- Another **webinar** on **Introduction to CMOS Integrated Circuit** was organized by the Sub-Centre on 4th Sep 2020, handled by **Dr (Ms) Bindhya T S**, AP/ECE, NIT Calicut. She started with the history and introduction of MOSFET and later covered other aspects of MOSFET, *viz.*, characteristics, capacitance, scaling of MOSFET, PMOS, NMOS, CMOS, CMOS inverters and Power dissipation, its importance and types. **Dr Sabiq P V**, Sub-Centre Chairman, delivered the welcome address and **Shri Hemand E P**, Vice Chairman, moderated the event. About 65 faculty members and students participated.

- The **webinar** of 1st Oct 2020 on “Digital Marketing” was chaired by **Mr Abdul Latheef**, Facebook Lead Trainer India, Regional Mentor MHRD Innovation Cell. **Dr Sabiq P V**, Sub-Centre Chairman, welcomed and greeted all. The programme was moderated by **Shri Hemand E P**, Centre Vice Chairman. **Dr P Janardhan**, **Dr Mredhula L** and **Shri Swaradh** graced the occasion with their presence. About 95 faculty and student members participated in the event.

- The **webinar** on “Signal Processing Application using TI C6000 DSP (TMS320C6748LCDK)” held on 15th Oct 2020 was with the resource person, **Mr Mohammed Hussain G S**, Senior Application Engineer, StarCom Information Technology Ltd.,

Bangalore. **Dr Sabiq P V**, Sub-Centre Chairman delivered the welcome remarks while **Shri Hemand E P**, Sub-Centre Vice-Chairman moderated the programme. **Dr L Mredula**, Sub-Centre Hony Secretary, coordinated for the function. About 40 faculty and student members participated.

- The **67th IETE Foundation Day** was celebrated online on 2nd Nov 2020. **Dr P Janardhan**, Prof, Dept of EEE, KMCT College of Engineering and **Shri Jayanth Ganguly**, Sr Technical Officer, Regional Science Centre & Planetarium, Kozhikode, spoke on theme topics, set for the day. Earlier, the welcome address was given by **Dr Mredhula L**, Sub-Centre Hony Secretary. Senior members felicitated on the occasion were - Ex-Sub-Centre Chairman **Dr V B Panicker** (F-223531); founder Chairman, **Dr P Janardhan** (F-218510) and **Prof Pratap G Nair** (F-223532). **Shri C K Haridas**, Founder Chairmen of IETE Palakkad Sub-Centre and DFITEE also graced the occasion. **Dr Sabiq P V**, Chairman Sub-Centre, presided over the programme. Vote of thanks was proposed by **Shri Swaradh P**, Hony Treasurer, Sub-Centre. The event was moderated by **Shri Hemand E P**, Vice Chairman.

MUMBAI

- The Centre organized Tech lectures through **webinar** on **Fiber Optics and its Applications** on 25th Jul 2020, wherein **Shri Hitesh Mehta**, the Chief Guest, highlighted the features of fiber optics sensors, based on sending sites or location types, operating principles, uses, applications and benefits. Other dignitaries present were: **Shri Manohar Rampal**, **Shri Gurudatta Ullal**, **Shri Karthik Parikh**, **Shri Nirmal Punjabi**, **Shri Ajay Kumar** and **Dr Shrishu Varma**.

- The Centre organized another **webinar** on **LaTeX for Research Documentation** on 10th Aug 2020. **Prof Dattatraya Sawant**, the keynote speaker, in his address threw light on the LaTeX- a document preparation system for producing high quality output, based on Don Knuth’s revolutionary TeX typesetting program. He said that this programme is powerful as compared to the word processor or desktop publishing system and has a host of unique features, which dramatically cut time and cost for any publishing can project, especially for long or complex documents. Secret was in its programmability with hundreds of pre-written templates (packages) that could handle almost any formatting task. A pattern once defined, all further occurrences then follow that style, giving it unrivalled consistency. The output is 100% professional. He informed that the LaTeX was the go-to typesetting tool for research publications. Many technical conferences and journals accept only LaTeX based manuscripts. The purpose of the workshop arranged was to acquaint participants with the LaTeX environment, introduce methods (with a hands-on approach) to create typesetting for mathematics, research and other documentation such as conference papers, journal papers, thesis, presentations, notes, book chapters *etc.* Centre office bearers and many research scholars attended the workshop that proved beneficial for them.

- **MATLAB Master Class** was arranged by IETE Mumbai Centre in association with M/s Pantech. About 30 free lectures were conducted during 1st Sep – 30th Sep 2020 on the YouTube live channel of Pantech. Class introduced various topics like basics of MATLAB, user interface, advance techniques of image processing and AI, ML using MATLAB. Live demonstration of various codes was given and queries answered. Lectures were attended by about 2500 participants including students, faculty, IETE members as well as ISF students and were issued e-certificates.

- Another **webinar** on “Women in Engineering” was organized on 5th Sep 2020. Welcome address by **Mrs Poonam Chakraborty**, ISF faculty coordinator/DBIT, was followed by motivational words from **Shri Parag Walinjar**, Centre Chairperson. **Prof J W Bakal**, President IETE, graced the event and addressed the participants. **Dr Prasanna Nambiar**, Principal, Don Bosco Institute of Technology (DBIT), Mumbai, also spoke. **Ms Anupama Kulkarni**, Senior Scientific Officer at BARC Mumbai, was the keynote speaker, who dedicated her talk to the teachers. In her address, the speaker highlighted the names of few inspiring women role models, that included **Ms Ayyalomasayajula Lalitha**, the first women engineer in India; **Ms Rajeshwari Chatterjee**, pioneer of microwave engineering and **Mrs Janaki Ammal** who made sugarcane sweeter and a few others. The session concluded with question and answer session. **Mrs Saista Khan**, Centre EC member and **Shri Karnani**, IETE Mumbai, were also present. **Mrs Smita Lonkar**, Centre Hony Treasurer, proposed the vote of thanks.

- The Centre organized a **webinar** on “Mumbai Metro line 3-Train Control Systems” on the occasion of **IETE-MTech Webinar series L-4, 12th Anniversary celebrations** on 12th Sep 2020 by **Shri G S Tuteja**, Chief Signaling Expert, M/s Louis Berger Consulting Pvt Ltd, Mumbai. The talk was about the signaling and control system used in the New Metro line in Mumbai. The speaker first talked about new route and then advanced features of the Metro 3 line, use of dual wi-fi systems throughout the route, one for signalling and the other for monitoring and control of train movement. He also explained how trains run in auto pilot mode by using advanced control systems based on sensor data sent by the wireless network system to the server control and vice versa. He informed about the fail-safe operation, latency and alternate data transfer means in case of failure of the system. The lecture was useful and attended by IETE GC members, Centre’s EC members and other corporate members.

MYSORE

The Centre has **started its own quarterly newsletter** to impart news about conduct of its activities to its members. IETE Mysore Centre is one of the very active and vibrant Centres doing many technical activities for the benefit of electronic & telecommunication engineering community. Congratulations to Prof C R Nataraj, Centre Chairman, Dr Shashidhar S Gokhale, Chief Editor and the EC team members for this initiative.

NAGPUR

The Centre observed the **67th IETE Foundation Day** on ‘Emerging Technologies for effective management of the Pandemic’ the topic selected for the day on 2nd Nov 2020. The Chief Guest, **Shri Angad Kulkarni**, Founder & Dir, Viprush Technologies Pvt Ltd, Nagpur, in his address talked on various emerging technologies that were efficaciously used during pandemic and challenges subdued by the electronics industry in the difficult times. His talk highlighted the importance of data and data privacy in telecommunication and IT. **Ms Devarthi Mahajan**, III year student of Ramdeobaba College of Engg and Mgmt, presented the fundamentals of the Artificial Intelligence. **Shri Ankit Kriti**, Palloti College of Engineering, gave the essence of IOT and ML, through his address. **Dr Sanjay Badjate**, Centre Chairman, presided over the function. After welcome remarks, he read out the message by President IETE. Prize distribution for **Smt Suraksha Gorowara Memorial Essay Competition** was also held on this occasion. 1st prize in the competition was bagged by **Master Alok**, student of Bengali High School Ramdaspath, 2nd prize went to **Ms Vaibhavi**, while the 3rd prize was clinched by **Master Parth**, Somalwar High School, Ramdaspath. **Prof Madhuri Bawane** was incharge for the event. It was attended by large number of participants including EC members, ISF coordinators, members and students. **Dr Suresh Rangankar**, Centre Hony Secretary, **Prof Kharpate**, Centre Hony Treasurer, **Dr B P Joshi** Immdt Centre Past Chairman, **Dr P D Khandait**, **Dr Salim Chavan**, **Dr Vijay Mankar** were also present. Vote of thanks was proposed by **Shri AR Sawatkar**, Centre Past Chairman.

NASHIK

- The Sub-Center organized a **webinar** on **Women Empowerment** on 22nd Jul 2020 in association with Internal Complaints Committee (ICC) of Guru Gobind Singh College of Engineering & Research Centre, Nashik. **Er Apurva Jakhadi**, Sub-Centre Vice Chairman & Dir, Shree CNC Engineers Pvt Ltd, Nashik, was the main guest and speaker for the session.

- Another event organized was on **Space Technology: Opportunities and Prospects in Today’s Scenario** on 30th Jul 2020 in association with Dept of E&TC, K K Wagh Polytechnic, Nashik. **Er Apurva Jakhadi**, Sub-Centre Vice Chairman, was the keynote speaker for the webinar. **Prof (Dr) V R Khapli**, IETE member & Co-ordinator, **Prof B V Gawali**, IETE member & Co-Convener and **Prof P T Kadave**, Principal, KK Wagh Polytechnic Nashik & Convener, were other notables present during the talk.

- **Engineers’ Day-2020** was observed on 15th Sep 2020 in association with KK Wagh Institute of Engineering Education & Research (KKWIEER), Nashik. On this occasion a talk by **Shri Hitesh Dhokiya**, Head of Engineering and R&D, Siemens India Ltd, Nashik, was organized titled, “Industrial & Rolling Stock Application of Power Electronics”.

PALAKKAD

● The Centre conducted a **web seminar** on of **Career Option-Scope Engineering** on 28th Jul 2020 for engineering aspirants. **Prof C Pradip**, NSS College of Engineering, Palakkad, was the resource person. He started with highlighting the profile & achievements of scientists from good old days to the present era. He talked about some subjects from conventional engineering and a few from the latest emerging streams in the domain. He motivated students by emphasizing on the saying, “I cannot change yesterday, but I can change today”. **Dr V Devi**, Centre Chairperson, **Shri C K Haridas**, founder Chairman, also addressed the participants. **Shri Beji K Mathew**, Centre Hony Secretary, proposed the vote of thanks. **Shri P Suresh**, Centre Manager, gave technical assistance in the program. About 80 members attended.

● A **webinar** on “Virtual Labs for Students” was organized on 21st Oct 2020 in association with the ISF at Dept of ECE, Royal College of Engineering and Technology (RCET), Akkikavu, Kerala, with the support of the Chairperson **Dr V Devi**, Principal/RCET. **Ms A Ajanya**, ISF representative, delivered the welcome address. **Shri P Suresh**, Centre Manager, conducted some experiments with theoretical background for three engineering streams *i.e.* ECE, EEE & Computer Science, which proved beneficial for students in present pandemic situation. It also included a discussion session. Around 50 students from various colleges, faculty members and IETE members from the Centre, participated.

● The Centre organized **67th IETE Foundation Day** programme online on 2nd Nov 2020 with the expert speaker **Shri Georgy Cherian Varghese**, Sr System Analyst, West Jet, Canada, also the Chief Guest on the day. Programme started with the welcome address by **Shri Beji K Mathew**, Centre Hony Secretary. **Dr V Devi**, Centre Chairperson, presided over the function. The message for the day by President IETE was read out by **DFIETE, Shri C K Haridas**, Founder Centre Chairman & former GC Member. He insisted following IETE motto to overcome difficult situations not only during pandemic but for any other challenges in future. Other dignitaries present were: **Prof C Pradip**, Centre Past Chairman; **Prof P Nandakumar**, Centre Past Chairman; **Dr T Sudha**, Principal NSS College of Engineering (NSSCE), Palakkad; **Dr S Sindhu**, Centre EC Member; **Dr Sabique**, Chairman, IETE Kozhikode Sub-Centre. **Shri Georgy Cherian Varghese’s** talk was based on special points of 3D face shield printing technology, 5G technological applications for preventing Covid through virtual clinics, ventilators, artificial respiratory equipment and some other latest prevention methods as applied in Canada. Vote of thanks was proposed by **Shri P Suresh**, Hony Treasurer.

PILANI

● The **IETE Foundation Day** on “Emerging Technologies for Effective Management of the Pandemic” was observed by the

Centre on 2nd Nov 2020. It started with the welcome remarks by **Dr Krishna Meel**, Centre Hony Secretary. Later, **Shri Pramod Tanwar**, Centre EC member, read out the President’s message. The addresses of **Dr S M Prasanna Kumar**, Dir, BKBIET, Pilani and **Dr P C Panchariya**, Dir, CSIR-CEERI, Pilani, highlighted efforts made by the IETE and the CSIR during COVID-19. **Prof (Dr) Ajay Agarwal**, Sr Principal Scientist, CSIR-CEERI, Pilani and Centre Chairman’s talk centered around those aspects of COVID-19 where electronics and telecommunication engineers could contribute. About 50 members joined the webinar from various cities including ISF BKBIET students. The closing remarks were by **Dr S C Bose**, Academic Advisor, IIT Jodhpur and Centre Past -Chairman, followed by vote of thanks from **Dr Neeraj**, Centre EC member.

PUNE

● To commemorate **67th IETE Foundation Day**, a lecture was arranged on 02 Nov 2020 on the theme “Emerging Technologies for Effective Management of the Pandemic” by **Dr D S Bormane**, Principal AISSMCOE & Chairman BOS (Electronics) SPPU, Pune. At the outset, **Prof A D Bhoi**, Centre EC member, welcomed all the dignitaries. The Centre Chairperson, **Dr R D Kharadkar**, informed audience briefly on the objectives and role of IETE for promotion of technology. He enumerated the activities organized by IETE Pune Centre and the ISFs under the Centre. He thanked Senior Fellow members **Dr V L Lokre** and **Prof J B Bhalerao** for their long association and contribution to the Centre. **Dr V V Shete**, Centre Hony Secretary, read out the message of President IETE. Senior Fellow members associated to the Centre felicitated on the occasion by **Prof S K Khedkar**, Mentor, IETE Pune Centre & Past Vice President, IETE, were: **Dr V L Lokre** (F-041256), Former DRDO (HEMRL, Pune) Scientist & Ex Centre Chairman (1986–89) and **Prof J B Bhalerao** (F-108296), Former Scientist, Defense Advance Technology, Pune. Others present were **Shri Kishore Shende**, Centre Immdt Past Chairman; **Shri G K Dawara**, Centre Past Chairman; EC members, IETE members and ISFs faculties and students. Vote of thanks proposed by **Dr P B Mane**, Centre Hony Treasurer.

● An online **technical lecture** by **Prof S K Khedkar**, Vice President, IETE (2019-20) on “Engineering Education perspectives in India” was conducted on 28th Nov 2020. He talked about suggestive road-map for IETE in the changed environments.

● The Centre together with “**Pune Hams**” celebrated **162nd Birth Anniversary of Sir J C Bose**, Father of Radio on the theme “Learning Electronics & Telecommunication through Ham Radio Hobby” on 30th Nov 2020 via on-line mode. **Dr R D Kharadkar**, Centre Chairman, inaugurated the event. **Shri Sudhir Phakatkar**, VU3CGD from GMRT Khodad, graced the event as the main guest and spent time interacting with students. He informed about the life & works of Sir J C Bose and highlighted his achievements in the field of microwave optics technology. He also told how Sir J C Bose contemplated

existence of electromagnetic rays radiating from the sun, when he was giving the presentation to the Royal Institute in London in January 1897. This radiation from the sun was not detected until 1942.

RAJKOT

The Centre observed the **67th IETE Foundation Day** on 4th Nov 2020 on the theme topic “Emerging Technologies for Effective Management of the Pandemic” through digital platform. The experts delivered their addresses include: **Shri Maulik Dhamecha**, AP/CE, VVP Engg College, Rajkot & **Dr Ashvini D Joshi**, AP, Dept of Nano Science Advance Materials, Saurashtra University, Rajkot. The welcome address was delivered by **Prof (Dr) Atul M Gonsai**, Centre Chairman. **Er S M Suchday**, Centre EC Member, read out the message of IETE President. The talks were well received and invited a good interactive session. Vote of thanks was proposed at the end by **Dr Divyesh Keraliya**, Centre Hony Treasurer. The programme was coordinated by Er Mohit Parbat, Centre EC Member.

SIVAKASI

- The Centre organized **1st Techno Blaze** of the academic year 2020-21 in the form of a lecture-cum-group discussion on 17th Aug 2020 via digital platform. **Dr S Syed Ameer Abbas**, Centre Chairman, presided over the function. **Dr W Sylvia Lilly Jebarani**, Centre Hony Secretary, delivered the welcome remarks and introduced **Mrs R Newlin Shebiah**, Asst Prof, Dept of ECE, MEPCO Schlenk Engineering College, Sivakasi, the speaker for the day. The speaker delivered her address on “Social Signal Processing: Understanding Human Behaviour using Nonverbal Communication” and afterwards group discussion took place. Her presentation involved description on Video Analytics. She explained the various integral components of the process, viz., background subtraction, classification of foreground objects, object tracking, activity recognition and emotion recognition via nonverbal cues *etc.* Every component with state-of-the-art architectures was explained with examples. The AffdexMe App was demonstrated to the participants. A case study on student behaviour analysis was taken up giving the audience useful session on ‘Social Signal Processing’. **Dr R Shantha Selva Kumari**, Centre Past Chairperson was present during the online event. Around 35 Corporate members attended. Dr R Ahila Priyadarshini, Centre Hony Treasurer, concluded the session with vote of thanks.

- The Centre celebrated the **67th IETE Foundation Day** at MepcoSchlenk Engineering College Campus, Sivakasi, on the selected theme, “Emerging technologies that play a crucial role in effective management of the Pandemic” through virtual mode on 2nd Nov 2020. It started with lighting of the lamp followed by the welcome address of **Dr W Sylvia Lilly Jebarani**, Centre Hony Secretary. Message for the day from President IETE was read out by **Dr S Syed Ameer Abbas**, Centre Chairman, who underlined the need for an upgraded telecommunication infrastructure that

could support 5G functionality. He appealed IETE Centres to contribute in every possible & better way to raise the role of digital technologies for an efficient pandemic management. **Dr S Selva Nithyanandhan**, ISF co-ordinator, introduced the speaker **Dr N Senthil Kumar**, who listed out the challenges, technical Innovations addressing those challenges and mentioned about few interesting lockdown inventions, in his address. He also discussed key issues coming in online education that became mandatory during the Corona period. Keeping up with the past practice, the Centre announced the name of the ISFs that were successful in enrolling the highest number of ISF members under its aegis. The highest ISF Membership Award this year was clinched by the **ISF of Mepco Schlenk Engineering College, Sivakasi** (544 ISF members). The second position in the category was bagged by the **ISF of Kamaraj College of Engineering and Technology, Virudhunagar** (300 ISF members). Dr R Ahila Priyadarshini, Hony Treasurer, IETE Sivakasi Centre, proposed vote of thanks, followed by the National Anthem. Around 50 IETE corp members attended the program.

- The **3rd Techno Blaze** (2020-2021) as a lecture-cum-group discussion was organized on 14th Dec 2020 via google meet. **Dr S Syed Ameer Abbas**, Centre Chairman, presided over the programme. Welcome remarks were delivered by **Dr W Sylvia Lilly Jebarani**, Hony Secretary. **Mrs E Amrutha**, Research Scholar, ECE Dept, MEPCO Schlenk Engineering College, Sivakasi, spoke on ‘Immersive Technologies for Engineering Design Solutions’, by using videos to differentiate between the components of extended reality. Around 25 IETE corporate members joined the event including the office bearers, present in person. The Centre Hony Treasurer, Dr R Ahila Priyadarshini, proposed vote of thanks.

TIRUPATI

The **67th IETE Foundation Day** organized through a video conferencing on 8th Nov 2020 was graced by **Prof K P Ray**, Dean (Sponsored Research) and Head, Electronics Engg & Computer Science Dept, Defence Institute of Advanced Technology (DIAT), Min of Defence, DRDO, Govt of India, Pune, as the Chief Guest. **Prof Ch D V Subba Rao**, Centre Chairman, initiated the event with welcome address & then outlined the profile & achievements of IETE Tirupati Centre. He highlighted the role of engineers/scientists in combating COVID-19 and enumerated few advanced ICT enabled solutions in healthcare sector for the pandemic management. **Dr M Venkat Ratnam**, Centre Hony Secretary, read out the message by President IETE. **Dr TVC Sarma**, Immdt Past Centre Chairman, introduced the Chief Guest & the keynote speaker, **Prof K P Ray**. Prof Ray speaking on “Neutralizing COVID-19 using High Power Microwave Technology”, enlightened all on the new technology innovation, achieved under his leadership. This technology, he said, named as ATULYA – is a Microwave sterilizer for neutralizing corona virus on surfaces as well as embedded within objects. He started speaking of top risks involved in the Corona situation, its nature and effects. He

said that the pandemic brought the world to a standstill enforcing several countries to lockdown its businesses and movements either completely or partially, resulting in weakening of the economic growth, particularly in developing countries like India. However, the speaker said that it also provided an unprecedented opportunity to innovate new technologies for combating such deadly microbes and enhanced one's preparedness for future pandemics. While outlining the working principle of ATULYA, the speaker highlighted the advantages of microwave technology of deep penetration, low cost operation and maintenance over existing technologies based on chemicals and UV light, which disinfect only the surfaces. He informed that his innovation was unveiled by the Hon'ble Cabinet Minister, Shri Nitin Gadkari and has entered in commercial production level and will be made available through Govt e-Marketplace (GeM). The lecture was followed by an interactive session. Attendees included corp members of IETE Tirupati Centre, scientists of NARL as well as faculty and students of SV University and other engg colleges. Vote of thanks proposed by Dr K Raghunath, Centre Hony Treasurer.

VADODARA

- The Centre organized an **online talk** on the topic "De-Stress your Stress through Breath Control and Meditation" on 29th Aug 2020. **Dr K L Rana**, a practicing homeopath and a health & wellness expert, was the keynote speaker. **Dr Yashpal Goyal**, Centre Vice Chairman, delivered the welcome remarks. **Dr Sorum Kotia**, Centre Hony Secretary, introduced **Dr K L Rana**. Dr Rana in his address explained the causes of stress, how it affects one's body, the impact of breath control and importance of performing meditation. Going deeper, he informed about our existence in seven layers, four sources of energy (Urja) and impact of four directions (Deesha) on human psyche. Gyan and Dhyana were specifically emphasized upon. Dr Rana made it an interactive session and gave demonstrations on some of the breath control techniques. He also guided the participants and made them do pranayama kriyas. It was an enriching experience for all the participants. Finally, vote of thanks was proposed by **Dr Sorum Kotia**.

- The Centre started a **webinar** series known as - "Let's Know Our Institutions - भारतीय संस्थाएँ". The 1st session of this series was on the elite institution, **the Electronics and Mechanical Engineers (EME), Vadodara**, conducted through Zoom on 10th Oct 2020. **Brig (Dr) Sanjeev Devasthali**, EME, Vadodara, highlighted the role played by the Corps of Electronics and Mechanical Engineers (EME) in providing engineering support to Indian Army and in protecting and supporting our nation. **Dr Sorum Kotia**, Centre Hony Secretary, presented the welcome address. **Dr Mamta Padole**, Centre Chairperson, introduced the speaker and spoke about on the theme. About 32 participants were present. It was an enriching experience for the participants.

- The Centre commemorated the **67th IETE Foundation Day** by arranging expert talk on the theme "Indian Space Research Organization: Towards Self Reliance" on 2nd Nov 2020 through online mode. **Shri Nilesh Desai**, Assoc Director, SAC, Ahmedabad, the keynote speaker, introduced **the Indian Space Research Organization (ISRO)** under the **2nd session of their newly initiated webinar series** - "Let's Know Our Institutions - भारतीय संस्थाएँ". Shri Desai took the audience through the entire time-line of space program- starting from early birds satellites to the latest satellites, space transportation system & navigation systems. He accentuated the significance of India's Space program and its relevance in global perspective. The utilization of space technology by ISRO in managing present pandemic was emphasized. Welcome address was by **Dr Sorum Kotia**, Centre Hony Secretary and **Dr Mamta Padole**, Centre Chairperson read out the President's message. **Shri Yashpal Goyal**, Centre Vice Chairman introduced the speaker to the participants. About 77 participants comprising of professionals, researchers, academicians, students, attended.

- The **3rd session of the webinar series** on "Let's Know Our Institutions - भारतीय संस्थाएँ" was centered on the institution, **National Informatics Centre, (NIC)** and organized on 19th Dec 2020 by **Shri PV Mohan Krishnan**, Dy DG and State Informatics Officer, NIC, Gujarat. It was attended by about 27 participants and concluded with vote of thanks from **Dr Sorum Kotia**, Centre Hony Secretary.

IETE Professional Activity Centre (PAC)

IETE Organizational Member at Dept of E&C, VVP Engineering College (VVPEC) Rajkot, (G-00374), organized an online Short Term Training Programme (STTP) on **Modern Trends in Image Processing in Medical Application** during 21st-25th Sep 2020 in association with IETE Rajkot Centre; the Dept of Science and Technology, Govt of Gujarat (DST) and Gujarat Council on Science and Technology (GUJCOST), Gujarat. The programme was sponsored by GUJCOST and jointly organized by **Dr Vishal D Nimavat**, EC member, IETE Rajkot Centre, **Prof Sheron H Christy** and **Prof Jignesh P Ajmera** of Dept of E&C, VVP Engg College, Rajkot. This programme was arranged to enlighten participants in the area of medical imaging

and to provide a platform to exchange views, ideas & the latest innovations. It highlighted the basics, modern trends & challenges in the field of Image Processing in Medical Applications. It helped in refining one's proficiencies to carry out consultancy, testing & research in the domain. 13 eminent experts from IIT Delhi, IIT Gandhinagar, IIIT Vadodara, SVNIT Surat, Saudi Arabia & experienced doctors from renowned medical colleges were invited to deliver talks. Total participants were 146 including 102 faculty members (EC, CE, IC, applied mechanics, biomedical, radio diagnosis & imaging, medical imaging, nanoscience, petrochemical, physiotherapy, science of humanities) & 44 students from Gujarat and outside Gujarat.

IETE Students' Forum Activities

- **ISF at Dept ECE, Dr MGR Educational and Research Institute (DMGRERI), Chennai**, conducted an event INNOWAZ'2k20 on **Mar 11, 2020**. Student Co-ordinators: Ms Pavithra & Ms Swetha organized the event. Dr T Godhavari, HoD/ECE & IETE Staff Co-ordinator, Dr T Vimala, appreciated the organizers' efforts and students' participation.

- **ISF at ATME College of Engineering (ATMECE), Mysuru**, organized a national level Technical Fest - URJA 2K19 during **Mar 21-22, 2019** in association with IETE Mysore Centre. It included 12 different technical events. About 300 participants from various institutions around the country participated.

- **ISF at Dept of ECE, Ramco Institute of Technology (RIT), Rajapalayam (TN)**, in association with IIC, organized a webinar on "Introduction to ARM Based System-on-Chip Design" on **Jun 13, 2020**. Mr MN Jabeer Ahmed, Sr Engineer, ARM, Bangalore, was the guest speaker. Mr A Azhagu Jaisudhan Pazhani, AP (SG)/ECE, Shri A Rameshbabu, AP/ECE and Shri G Sivakumar, AP/ECE coordinated. About 111 participants attended the webinar. The ISF organized another event "The Best Tactics and Tips to Achieve it" on **Aug 21, 2020** for ECE I-year students about to join RIT, Rajapalayam. Ms M Nivetha, IV/ECE and Ms A Adishree Trinetra, III/ECE, were invited speakers. Dr B Deepa Lakshmi, ASCP/ECE and Mrs V Sreerenga Nachiyar, AP/ECE, coordinated the event under the guidance of Dr S Periyannayagi, Prof & Head/ECE. About 38 students attended. A guest lecture by Shri M Chandrasekaran, Lead Research Engineer, Centre of Excellence in Wireless Technology (CEWiT), IIT Madras, was held on "Overview of 5G" on **Sep 5, 2020**. On the same day another event on "Knowledge with Funny Riddle", was coordinated by Mrs R Ramalakshmi, AP/ECE and Shri S Vijayakumar, AP/ECE under the guidance of Dr S Periyannayagi for about 44 students. The ISF also organized a technical event for RIT Buds named "Talent Hunt" for I-year ECE students on **Sep 10, 2020**, coordinated by Shri A Azhagu Jaisudhan Pazhani, AP/ECE and Shri G Sivakumar, AP/ECE, attended by about 45 students. A technical event: "Technical Connection Game" on **Nov 7, 2020** was organized by Ms K Sukuna, and Shri P Kalidas, and coordinated by Shri D Gopinath, AP/ECE with 21 participants. The event "Connect with ECE" was organized on **Nov 27, 2020**, by Ms M Shrinithimeena, and Ms G Manjula.

- **ISF unit at Dept of ECE, Saveetha Engineering College (SEC), Chennai**, organized a national level virtual FDP on "Nanotechnology" on **Jul 3, 2020** with the resource person- Dr A Nirmala Grace, Head/Dir, Centre for Nanotechnology Research, VIT-Vellore. It was attended by about 125 members. Another webinar on "Touching an Intelligent World: Re-Imagining the Post COVID-19 World" was held on **Jul 9, 2020** by Shri S M Madhusoodhan, Manager, Engineering Research & Design Council, NASSCOM, Bangalore, with about 100 members. The five-day virtual FDP was organized on **Jul 17, 2020** on "Digital Design the Mission Impossible", attended by 75 members.

- **ISF at Dept of ECE, SRM Institute of Science and Technology (SRMIST), Vadapalani Campus, Chennai**, together with ISFs of Panimalar Institute of Technology (PIT), Chennai; Easwari Engg College (EEC), Chennai; Jeppiaar Institute of Technology (JIT), Chennai; Sri Venkateswara College of Engg (SVCE), Chennai and Vel Tech Multi Tech Dr SR Dr RR Engg College, Chennai, organized a joint webinar on "Introduction to IOT & its Applications" on **Jul 4, 2020**. The resource person for the webinar

was Shri GL Ganga Prasad, Former Dir, CDAC, Bengaluru. 192 members attended the session. Another webinar held on **Jul 11, 2020** on "GPS & Beyond—An Introduction to Satellite Positioning Systems" was by Dr K M Sivakholundu, Vice-Chancellor, Indian Maritime University, Chennai. Attendance was more than 200 participants. The webinar on "Software Design Aspects of WLAN Access Point" was held on **Jul 25, 2020** with Shri Ashok Govindarajan, Head of Wireless Networks Zilogic Systems, Chennai, and saw a participation of 130 members. The ECE Dept. conducted a talk on "A Professional Development Plan for Students and Young Educators" on **Aug 1, 2020** with the help of Prof (Dr) Krishnasamy Selvan, Dept. ECE, SSN College of Engg, Chennai. Shri A Sadagopan, ex-Asstt GM, BSNL, Chennai, enlightened the members on the topic "Recent Trends in Optical Communication Systems" vide his talk on **Aug 8, 2020**. The next webinar on "Electronic Control Unit for Heavy Duty Trucks" by Shri KV Nagesh, Founder & MD, Data Care Systems, Chennai, was organized on **Aug 14, 2020** with about 85 members. "Matlab Programming Techniques" was attended by about 90 members and held on **Aug 22, 2020** by Dr Markkandan, Asstt Prof, Dept of ECE, Anand Institute of Higher Technology, Chennai. Another session on "Revering of Knowledge on Teachers' Day and a Quiz on "COVID 19 and AI Solutions" were organized on **Sep 5, 2020**, attended by 95 members. Shri Visweswaran J, Territory Manager, NI, Bangalore, delivered a talk on "Faculty Development Programme" on **Jul 10, 2020** at the ISF, attended by a good number of participants. The webinar on "Advancement in Packet Based Communication" was arranged on **Sep 2, 2020** with the help of Dr Amar Nath Ray, Kansas City, USA, and was attended by 115 members. The ISF, Ramapuram Campus, Chennai, conducted a two-day workshop on "Cyber Security" during **Sep 22-23, 2020** by Shri Sai Satish, CEO of Indian Servers Company, Vijayawada (AP), while Dr D Manoj Kumar, AP/SRMIST, coordinated the programme. Workshop was attended by about 120 members.

- **ISF at Dept of E&TC, All India Shri Shivaji Memorial Society's (AISSMS), Pune**, arranged an expert talk on "Embedded Skill Development and IoT Applications" delivered by Shri Balaji TS, Embedded System Engr, EdGate Technologies Pvt Ltd, Bangalore, on **Jul 11, 2020**. The ISF with the support of IETE Pune Centre, organized a webinar on "Industrial Automation and IoT" on **Jul 14, 2020**. It was presented by Shri Jyotindra Chaudhary, Sr Trainer and Entrepreneur, MPTA Education Ltd, Pune, and Shri Chinmay Kulkarni, Placement Executive, MPTA Education Ltd, Pune. A talk by Dr Anuradha Harkare, Psychologist, Pune, took an important session on "Importance of Mental Health & Managing Stress" on **Jul 20, 2020**. The webinar on "Why Team Work is Essential" was organized on **Jul 25, 2020** by Mr Abrar Hafiz, Pune. Another expert talk on "Importance of Electronics Engineers in Industry/Research Area" on **Aug 9, 2020** was given by Shri Saurabh Patil, R&D Head, Sagar Defense Engineering Pvt Ltd, Mumbai. The talk by Shri Manoj S Kavedia, AP, Thadomal Shahani Engg College, Bandra, Mumbai, was held on "Industrial IoT" on **Aug 14, 2020**. The above events were supported by IETE Pune Centre and were seen being addressed by Dr P B Mane, Principal AISSMS IOIT, apart from expert speakers. "Women Empowerment" webinar was held on **Sep 10, 2020**, sponsored by IETE, Pune Centre with the keynote speaker Dr Zoya Waseem Shaikh. Another women empowerment program on "भारतीय संस्थाएँ" was conducted on **Oct 21, 2020**, coordinated by Dr M P Sardey, HoD/E&TC; Mrs Geeta Salunke and Mrs H B Magar, faculty coordinators through zoom. Dr M P Sardey, Dr P B Mane,

Principal, AISSMS-IOIT, Prof Mausami Vanjale, Vineeta Philips and Ms Aditi Khaire, participated. The **ISF, IOIT, Pune**, organized a webinar on “Computational Intelligence for Cyber Security” during **Oct 26-Nov 2, 2020**, which was by Dr Manohar Chaskar, Dean Science and Technology, SPPU, Pune. The guest speakers in it included: Dr SN Talbar, Shri Swadin Sawant, Shri Karan D Kanekar, Dr Nareshkumar Harale. Shri Suhas Kamtikar, Shri Ritesh Mourya, Dr Sanjay Shitole, Prof Shweta Tripathi. Guidance was provided by Shri Ravi Randale, Director, Logixcode, to the participants. Dr RD Kharadkar, Chairman IETE Pune Centre, graced the valedictory session as its guest. Dr SB Dhonde proposed vote of thanks.

- **ISF at Dept ECE, Mohamed Sathak A J College of Engg (MSAJCE), Chennai**, organized an International virtual conference on “Emerging Frontiers in Control and Communication Technologies– ICECCT 2020” on **Jul 17, 2020** with about 125 members in attendance.

- **ISF at Dept of ECE & Mechatronics at Nehru College of Engineering and Research Centre (NCERC), Palakkad**, organized an FDP on “Internet of Things, Robotics and its Applications” during **Jul 21-25, 2020** in association with IETE Centre Palakkad. Dr S Rajkumar, EC member, IETE Palakkad Centre & HoD/ECE, NCERC, took the session on “Importance of Sensors in IoT” while Er P Suresh, Centre Manager of IETE Palakkad Centre, conducted the session on “Industrial Applications on IoT”. The discussions were informative & the participants were provided e-certificates. Throughout FDP around 113 participants attended.

- **ISF at Jawaharlal Darda Institute of Engineering and Technology (JDIET), Yavatmal**, put together an online workshop on “Internet of Things (IoT) with ESP32/ Arduino” on **Jul 22, 2020** in association with IETE Yavatmal Sub-Centre. The workshop was handled by Prof A B Rathod, AP/ JDIET, Yavatmal and EC Member of IETE Yavatmal Sub-centre. About 182 students turned up.

- The **ISF at MIT-ADT University (MITADTU), Loni Kalbhor, Pune**, set out a webinar on “Building Truly Intelligent Systems” on **Jul 25, 2020** by Shri Girish Keshav Palishkar, Principal, Scientist, TCS Research and Innovation, TCS Ltd. Prof (Dr) Kishore Ravande, Principal, MITSOE; Prof (Dr) R D Kharadkar, Chairman, IETE Pune Centre; ER Girish Khilari, IEEE Chair, Pune Section; Prof (Dr) V V Shete, Hony Secretary IETE Pune Centre & VP-Head ECE, MISOE; Prof (Dr) Dhananjay Upasani, EC member IETE and Prof (Dr) P H Patil, EC member IETE, Pune, came in. The ISF at MIT-SoE & MITADTU together conducted a workshop on “Putting Science and Engineering in Practice using MATLAB”, through WebEx, inaugurated by Prof (Dr) Mangesh Karad, Exec President and VC- MITADTU during **Jul 28-Aug 1, 2020**. The dignitaries present included- Prof (Dr) Virendra Shete, Vice-Principal, MIT-SoE and HoD/ECE; Er Girish Khilari, Chair-IEEE Pune Section; Dr Praful Pai and Shri Nikhil, Prof (Dr) Kishore Ravande, Principal, MITSOE. Vote of thanks proposed by Prof (Dr) Dhananjay Upasani, EC member IETE. Another webinar conducted was on “Advance in AI, ML & Robotics” on **Sep 5, 2020** handled by Prof (Dr) TC Manjunath, Head, ETC, DSCE. Prof (Dr) VV Shete, Hony Secretary, IETE Pune Centre, VP-Head ECE, MITSOE; Prof (Dr) PH Patil, Centre EC member and Prof (Dr) Dhananjay Upasani, also the Centre EC member were present. The workshop on “Applied Machine Learning uses Python” was arranged during **Sep 28-Oct 2, 2020** and conducted by Shri Prashant Sahu, Tech Smart Systems, as the resource person.

- **ISF at GH Raison Institute of Engineering & Technology (GHRIET)**

Pune, arranged an expert lecture on “Design of Control System using State Space Technique, Necessity and Design of Observer” during **Aug 1-2, 2020**, delivered by Dr Yogesh Hote, Assoc Prof/EE, IIT Roorkee. 45 students of BE Electrical and 5 faculty members including subject teachers, showed up. An expert lecture on “Power System Stability” by Dr Prashant Agnihotri, AP/EE, IIT Bhilai, was arranged on **Aug 5, 2020**, participated by 64 members. The webinar on “Data Science Research Avenues in the Post Pandemic Era” by Dr Susan Elias, Assoc Prof, School of Electronics Engineering, VIT Chennai & Dy Dir, Res Div of Advanced Data Science, was organized on **Aug 7, 2020**. 572 students and 25 faculty members participated. On the same day an expert lecture on “Basics of PID Controller & PLC Applications” was delivered by Dr Subhojit, for the students of BE Electrical & ME Power/Control with their faculty members. Some other eminent lectures conducted by the ISF include: “Solar Systems & PV Technologies” by Dr PS Kulkarni Professor/EE, Visvesvaraya National Institute of Technology (VNIT), Nagpur, on **Aug 10, 2020**; “Three Phase DC to AC Converter & Multilevel Inverters” by Dr Rajesh Gupta Prof/EE, MNNIT, Allahabad on **Aug 12 & 17, 2020**; “Overview of Power Quality” on **Aug 14, 2020** by Dr Chandrashekhar Bhende, Assoc Prof, School of Electrical Sciences, IIT, Bhubaneswar. The lectures attracted good participation. Other programmes organized by the ISF include- a webinar on “Internet of Things - Skill Development Programme” on **Aug 20, 2020** by Dr Jaya Dofe, UNH Lecturer/ECE, Florida International University; a programme on “Importance of Higher Studies” on **Aug 24, 2020** by Ms Lekha Pande, Lead Validation Engineer, Volkswagen of America, Inc, USA; an expert lecture on “Condition Monitoring & Testing of Electrical Equipment” on **Aug 27, 2020**, by Dr AV Giridhar, Dept of EE, NIT Warangal; a technical programme on “Recent Trends and Opportunities - Students Development Program” on **Aug 31, 2020** by Dr Venugopal Achanta, Prof Dept of Condensed Matter Physics and Material Science, TIFR, Mumbai. An online awareness quiz competition was organized on the occasion of Gandhi Jayanti on “Swadeshi Microprocessor” on **Oct 2, 2020**. Dr RD Kharadkar, Chairman IETE Pune Centre and Shri AD Bhoi, EC member, were present in most of the above mentioned events.

- **ISF of Dept of EE, Budge Budge Institute of Technology (BBIT), Kolkata**, organized an online Short Term Training Program (STTP) on “Smart Technologies in Energy Scenario” during **Aug 10-14, 2020** in association with IETE Kolkata Centre. Prof (Dr) Jyotsna Kumar Mandal, Chairman IETE Kolkata Centre and Prof Asish K Mukhopadhyay, Vice Chairman, IETE Kolkata Centre, participated. The domain experts present were- Prof (Dr) S B Singh, NIT Kurukshetra; Prof (Dr) Nitin Singh, MNNIT Allahabad; Prof (Dr) P Thakur, GEU Dehradun; Prof (Dr) A K Mukhopadhyay, AICTE Margdarshak and Prof (Dr) V P Singh, NIT Jaipur. Addresses delivered were useful and informative.

- The **ISF at JSPM’s, Bhivarabai Sawant Institute of Technology & Research (JSPM-BSITR), Wagholi, Pune**, fixed a seminar on “Robotics Process Automation”(NSRPA-2020) during **Aug 11-12, 2020**. The Chief Guest on the occasion was Mr Abdul Wahid Ansari, Head, AS InventQ, Pune. Other dignitaries present were: Dr RD Kharadkar, Chairman, IETE Pune Centre; Dr RS Joshi, Dir, JSPM, Pune; Dr VM Kayande & Dr SN Patil, Directors, JSPM Wagholi; Dr TK Nagaraj, Principal, JSPM’s BSIOTR, Wagholi, Pune and Dr YS Angal, Vice- Chairman, IETE, Pune Centre.

- **ISF at Dept of ECE, St Joseph's Institute of Technology (SJIT), Chennai**, organized a webinar on very interesting topic “Virtual Coffee with CEO – New Normal: Industry – Ready Skills for the Youth”

on **Aug 12, 2020**, delivered by Dr Mithileysh Sathiyarayanan, Innovator/Scientist Founder & CEO, MIT Square, London. The talk was attended by about 110 members. The webinar on “Cloud Computing” organized on **Sep 29, 2020**, was presented by Dr M Manikandan, Assoc Prof, Anna University, Chennai. About 95 members joined in.

- **ISF at Dept of E&T, KK Wagh Institute of Engineering Education & Research (KKWIEER), Nashik**, organized a number of technical programmes digitally in the last quarter. It included a webinar on “Electronics of Mind Management” by Shri Varun Dabke, IT Consultant and Art of Living Program Teacher, in association with IETE Nashik Sub-Centre on **Aug 12, 2020**; “Opportunities in Space Applications and Satellite Communication” by Er Apurva Jakhadi, Vice Chairman, IETE Nashik Sub-Centre & NASA-Honeywell Space Educator on **Aug 14, 2020**; “Signal Processing using MATLAB” by Shri Suraj Gawande, Sr Engr, Application Engg Team, Design Tech Systems, during **Aug 26 & 27 2020** in association with IETE Nashik Sub-Centre; “VLSI Design” by Shri Aniket Narkhede, Sr VIP Functional Verification Engg, Cadence, USA on **Aug 28, 2020** in association with IETE Nashik Sub-Centre; “5G and Opportunities” by Shri Nitin Mahajan, GM, BSNL on **Sep 4, 2020**, in collaboration with IETE Nashik Sub-Centre. A national level workshop was organized in collaboration with IETE Nashik Sub-Centre on “Terrestrial FM Broadcasting in India” by Shri Naveen Goyal, Broadcast Consultant during **Sep 7, 9 & 11, 2020**. The **ISF at IPR Cell, WWIEER, Nashik**, organized the webinar on “Glimpses of IPR and Recent Trends” on **Sep 18, 2020** by Shri Nakul Sharedalal, Founder, NS Legal and Advisor, GR Foundation, Ahmedabad, in collaboration with IETE Nashik Sub-Centre. Other programmes organized were “AI & Robotics in Biomedical” on **Sep 21, 2020** by Ms Smital Dhake, Robotics Engineer, Research Lab, King’s College, London; “AI ML DL-Use cases and Insights” on **Sep 26, 2020** by Shri Balachandran Natarajan, IT HR Products and Analytics People Leader, Ford Motor, Chennai; “Disaster Management” by Shri Atharva Patil, Ex Warden, Govt of Maharashtra, Civil Defense Organization, on **Sep 30, 2020** and a technical symposium on “Telekinesis-2020” during **Oct 27-29, 2020** powered by Nikola industry.

- A webinar on “Opportunities in Space Science & Technology” was organized by the **ISF unit at Dept of E&TC, Amrutvahini College of Engineering (AVCOE), Sangamner**, on **Aug 20, 2020**, and delivered by Er Apurva Jakhadi, Vice Chairman, IETE Nashik Sub-Centre & NASA-Space Educator & Member-UN Space Generation Advisory Council (UN-SGAC) Vienna-Austria, as the keynote speaker. Dr RP Labade, IETE Member & HoD/E&TC, AVCOE, coordinated for the programme.

- **ISF, KIT College of Engineering (KITCE), Kolhapur**, organized an online programme on **Aug 21, 2020**, wherein Dr Abinav Koyale, founder of ABKO English Academy, the Chief Guest, gave valuable tips to students regarding facing interviews, writing resumes and advised them to obtain maximum hands-on experiences to perform well in technical rounds. At the same time he cautioned them not to be overconfident during the HR rounds. Other dignitaries present were: Dr Mrs Sangeeta Chougule, Prof & HoD E&TC, KITCE and Shri EC Patil. AP/E&TC, KITCE.

- The programme on “A Realistic Approach towards Data Science” was planned by **ISF at Dept ECE, Sri Venkateswara College of Engineering (SVCE), Sriperumbudur**, on **Aug 23, 2020**, delivered by Shri Sivasubramanian, awardee, Karmaveer Chakra Award- 2019, instituted by iCONGO in partnership with UN. About 140 members attended the programme. The webinar on “Ocean Technology in NIOT” by Dr Tata

Dr Tata Sudhakar, Group Head, Ocean Electronics Group, Scientist G, NIOT, & Past Chairman, IETE Chennai Centre, was set out on **Aug 29, 2020** and saw good participation. Webinar on “Cyber Security Awareness” by Mrs D M Dheepika, Sub Inspector of Police (Technical), Cyber Crime Wing, Vellore District, was held on **Sep 17, 2020** in presence of about 110 members. Next, on **Sep 20, 2020**, the webinar was on “5G & its History” delivered by Shri Sunder Palaniraj, Director IC-design, TDK InvenSense, USA, also witnessed good participation.

- The **ISF at Dept of EC at Rajeev Institute of Technology (RIT), Hassan**, organized a six-day virtual FDP on “Advances in Signal Processing and Wireless Communication” in association with IETE Mysuru Centre on **Aug 24-29, 2020**. Domain experts included: Dr Sujatha BR, Prof & HoD/ECE, MCE, Hassan; Dr KV Suresh, Prof/ECE, SIT, Tumkur; Dr Veena Karjigi, Assoc Prof/ECE, SIT, Tumkur; Dr KS Shiva Prakasha, Prof/NMAMIT, Nitte; Dr R Sandeep, Assoc Prof, VVCE, Mysore and Dr Akhilesh Tyagaturu, Intel Corporation & visiting faculty to Arizona University, USA. Dr V Rajeev, President of the Trust, was also present. Dr Ramakrishna, Principal/RIT, wished success to the programme vide his address. About 150 students showed up.

- **ISF of LD College of Engineering (LDCE), Ahmedabad**, at Dept of ECE, planned for an online conference “ECICIS-2020” on the occasion of Teacher’s Day on **Sep 5, 2020** in association with IETE Ahmedabad Centre. Dr Suryakant Gupta, Scientific Officer-G/IPR, Gandhinagar, graced the event as the Chief Guest. Others present were-Shri Sudhir Agrawal, ECICIS-2020 Patron & Chairman, IETE Ahmedabad Centre; Dr RA Thakkar, Session Chair & Principal GEC, Rajkot; Dr KR Parmar, Session Chair & HoD/Electrical Dept, Adani Institute; Dr RK Gajjar, Chief Patron ECICIS-2020 & Principal, LDCE; Dr MV Shah, Patron ECICIS-2020 & Prof/EC, LDCE; Dr BS Sedani, Conference Organizing Chair & Prof/EC, LDCE and Dr PP Prajapati, AP/LDCE. A talk was delivered by Dr RA Thakkar on “Lookup Table (LuT) Based Model for Fin-FET Circuit Simulations”. Dr Suryakant Gupta, in his address, motivated the participants and encouraged them to explore state-of-the-art technologies through research. Vote of thanks was proposed by Dr BS Sedani. The technical sessions were chaired by Dr RA Thakkar and Dr KR Parmar.

- On the occasion of the Teacher’s Day (**Sep 5, 2020**), the **ISF at BK Birla Institute of Engineering and Technology (BKBIET), Pilani**, arranged for a webinar on “Cyber Physical Systems”. Opening remarks were given by Dr SM Prasanna Kumar, Dir, BKBIET. A presentation was made by Shri Manal Swami, CS-III year student, highlighting benefits of IETE Membership. Dr SA Akbar, Chief Scientist, Area Coordinator, CSIR-CEERI Pilani, enumerated the benefits of attending such technical sessions. Dr Ajay Agarwal, Chairman, IETE Pilani Centre, delivered the closing remarks. Students participated from the CIT College, BTTI and BKBIET. Vote of thanks was proposed by Dr Krishna Meel, Hony Secretary, IETE Pilani Centre & ISF Faculty Co-ordinator, BKBIET. Shri Ram Chandra Gurjar, RAS Officer & BKBIET Alumnus, delivered a talk, organized by the ISF on “Motivation for students” on **Oct 30, 2020**. About 90 participants connected and interacted with speaker for clearing their doubts. It concluded with vote of thanks proposed by Dr Krishna Meel, Hony Secretary, IETE Pilani Centre.

- **ISF at Noida Institute of Engineering and Technology (NIET-IIC), Greater Noida, UP, and Codetronics-** a leading software house, together organized a webinar on “Signal analysis made easy with MATLAB” conducted by Shri Akhilesh Kumar, Sr Technical Engineer at Design Tech

System Pvt Ltd, New Delhi on **Sep 8, 2020**. About 143 students joined in. On the same day the **ISF** and Codetronics, jointly organized another webinar on “Secret of Success” by Shri Hemant Upadhyay, Teacher, Art of living. In his address the speaker emphasized on the importance of soft skills such as communication and social as important aspects of personality in comparison to physical skills that contribute only 10% to one’s communication. The webinar on “Data Science and Artificial Intelligence” by Shri Santosh Chaudhary, Sr Data Scientist, M/s Nextwing Infotech Pvt Ltd, Ghaziabad, UP was arranged on **Sep 19, 2020**.

- **ISF at Dharmsinh Desai University (DDU), Nadiad, Gujarat**, organized a session on **Sep 15, 2020** by Ms Astha Shah, DDU Alumni, who deliberated the scope in the Systems Applications and Products in Data Processing (SAP). Programme was reached out by the HoD/IT, Dr Vipul Dabhi, DDU & IETE students and others.

- **ISF at Dept of E&TC, SB Patil College of Engineering (SBPCOE), Indapur, Pune**, organized two events during pandemic situation, namely, a webinar on “Understanding Product Development Process and Technology Readiness level” and a presentation and group discussion on **Sep 15, 2020** on the occasion of Engineers’ Day. Prof Kekan NR and Prof Taware PR coordinated the events. It was organized with the prior permission of IETE Pune Centre, under guidance of Dr PD Nemade, Principal, SBPCOE & Prof AS Zadbuke, HoD/SBPCOE. Dr Pratap Sanap, Software Architect, Persistent Systems Limited, Pune, spoke on the topic of Research Methodology. The **ISF** conducted another online session on “Career Options & Opportunities in Electronics” by Shri Renjith CV, Architect & Product Designer, Philips India Pvt Ltd, Pune, on **Oct 24, 2020**. The students (about 62) from various colleges checked in the session.

- **ISF at Dept of ECE, Jaipur Engineering College & Research Center (JECRC), Jaipur**, organized an online session in association with IEEE Rajasthan Subsection & OSA Student Chapter-JECRC, on “Demystifying Internet of Things (IoT): The Technology for Connected World” presented by Dr Deepak Sharma, Sr Scientist, CSIR-CSIO, New Delhi on **Sep 16, 2020**. The programme was coordinated by Dr Sandeep Vyas, HoD/ECE and moderated by Shri Jaiverdhan, AP/ECE.

- **ISF at Vidya Academy of Science and Technology (VAST), Thrissur**, conducted its 1st programme (2020-21) on **Sep 19 & 26, 2020** in association with IETE Kochi Centre. The session covered discussions on six excellent and innovative project works done by the ISF members of 2020 pass-outs batch. The ISF also conducted an online Technical Quiz on “Cryptics-2020” on **Oct 26, 2020**, in which Ms Vismaya Pramod (VAST) bagged the 1st Prize, followed by Shri Harshit Kumar (ASIET) in 2nd position, while the 3rd position was jointly shared by Ms Anna Paul (ASIET) & Shri Sarath K Unni (IESCE).

- **ISF at Dept of ECE, B S Abdur Rahman Crescent Institute of Science and Technology (BSARCIST), Chennai**, organized a virtual inauguration session of IETE & IE and associated clubs of the department on **Sep 21, 2020** through zoom. Dr C Tharini, Prof & Head, ECE, welcomed the dignitaries. The dignitaries invited were-Shri S Ramaswamy, GC Member, IETE; Dr N Venkateswaran, Chairman, IETE Chennai Centre; Shri Pandiyaraj G V, IRS, Alumnus and Dy Commissioner of Customs, Kolkata Customs, Dept of Revenue, Min of Finance and Shri G Rajesh, Masters Programme in International Business, Social Entrepreneur. The event was felicitated by Dr D Najumnissa Jamal, Dean, School of Electrical and Communication

Sciences. About 230 members participated including faculty and students.

- **ISF at IES College of Engg (IESCE), Kochi**, arranged a technical event with the support of IETE Kochi Centre on “Python Programming”, conducted by Prof Sumodh Sundar, Corporate/ASAP ML Trainer, Deep Learning Researcher, VIT & IEDC Nodal Officer, UKF College of Engineering, Kollam, during **Oct 10-12, 2020**. Dignitaries present on the occasion were-Dr Brilly S Sangeetha, Principal/IESCE; Ms Rachana M K, HoD In-Charge/ECE, IESCE; Shri Ajeesh S, IIC and IEDC coordinator/ IESCE; Ms Sindhu TV, IESCE and ISF Coordinator; Shri John J Thanikal, IEEE Coordinator, students and staff from various colleges. An Online Quiz competition on “Techno Spark-2020” was organized during **Oct 28-30, 2020** with the support of IETE Kochi Centre. Dr Brilly S Sangeetha, Principal/IESCE, was present. The assistance was provided by Ms Aksa David, AP/ECE and Shri Ajeesh S, AP/ECE, IIC and IEDC coordinator, IESCE. The results as declared by Ms Rachana M K, HoD In-Charge/ECE, listed 1st prize to Mr Ajmal C Rasheed, ECE/IESCE and 2nd prize to Ms Soumya Fathima, Vidya Academy of Science and Technology, Thallkottukara. Vote of thanks was proposed by Ms Aksa David, to conclude the event.

ISF at KMEA Engineering College (KMEAEC), Kochi, arranged a webinar series- Moulding for Industry 4.0 Revolution and a Panel Discussion session by KMEA college alumni on “Role of Electronics Engineers” on **Oct 17, 2020**. This was in association with IETE Kochi Centre. The panelists were: Shri Anoop C Sekhar, Assoc Consultant, TCS; Shri Vimal Raj V A, JTO, BSNL; Ms Gayathri M Nair, Sr Engineer, V-Guard; Ms Anu Anna Mary, Sr Software Engineer, WISILICA Pvt Ltd, Kochi and Shri Krishna Kiran, Design Engineer, Analog Devices, Bangalore. Dr Rekha Lakhmanan, Vice Principal, KMEAEC, was also present. Prof Smitha KM, HoD/ECE, KMEAEC moderated the programme. The ISF organized a technical workshop on “Build Your Product Online Based on Arduino” on **Nov 10, 2020** by the Guild of Electronics Engineers (GEE), Association of ECE Dept, KMEAEC, in association with IETE Kochi Centre, coordinated by Prof Smitha KM, HoD/ECE, Shri Bilga Jacob, Shri Binish M C, Shri Govind Santhosh and Mr Ismath Badsha.

- The **ISF at Model Engineering College (MEC), Kochi**, organised a talk series by number of college alumni during past few months. Ms Karthika Baiju, Software Engineer, Microsoft and an alumna spoke on “MEC to Microsoft Journey and the challenges along with it” on **Oct 17, 2020**. Another webinar by alumna Ms Anjana R Menon, Sr FPGA Designer at Prodigy Technovations, was on “Campus to Corporate Journey” held on **Oct 18, 2020**. The other webinars presented by the college alumni were on: “Importance of participation in college activities, Work-Life Balance” by Mr Harikishen H, Sr Technical Member, DE Shaw & Co, Ernakulam, Kerala on **Oct 24, 2020**; “Re-Engineer with Samir” by Shri Samir Madhavan, Founder member, Saitama Solutions on **Oct 31, 2020** and on “Re-Engineer with Anjana” by Ms Anusha Subramanian, SOC Power Engineer, Apple, on **Nov 15, 2020**. The presence of Dr M V Rajesh Maliyeckal, Vice Chairman of IETE Kochi Centre, during the activities boosted the spirit of the participants.

- **ISF at Viswajyothi College of Engineering & Technology (VJCET), Vazhukulam, Kerala**, organized a two-day online workshop on “Introduction to Python Programming” on **Oct 17 & 19, 2020** for the 5th semester of ECE students. Objective of the workshop was to make students conceptually and practically aware about basics of python programming. Mr Prince Kurian, AP/IT, VJCET was the keynote speaker. About 54 students attended the workshop.

- **ISF at Thakur College of Engineering and Technology (TCET), Mumbai**, organized the Alumnus Interaction on **Sep 19, 2020** through Zoom, where students from SE, TE and BE, Dept of Electronics Engineering (ELEX) participated. Shri Hari Khatavkar, an alumnus of Electronics/TCET, the keynote speaker, walked the participants through the roadmap and informed about the prerequisites that were required while pursuing higher studies. He guided them on building one's portfolio and gave tips for appearing in GRE, TOEFL examinations. The application/admission processes of universities were explained. The session included a Q&A round where the participants directly voiced their queries. About 46 participants including the viewers, core committee and internal faculty members attended. The session was informative & ended with a vote of thanks address.
- **ISF at Dept of E&TC, MES College of Engineering (MESCOE), Pune**, organized an online guest lecture by Shri Saurabh Sharma, Application Development Associate Manager, Accenture, on "Project Implementation" on **Sep 26, 2020**. Dr Rekha Kadam, and Dr P N Kota, both Project coordinators/E&TC, assisted. Shri Kiran Bhapkar, Team Leader, Accenture, also addressed the participants. Another webinar on National Education Policy (NEP)-2020 was conducted on **Oct 26, 2020**, where Dr PB Mane, Principal, AISSMS College of Engineering, was the Chief Guest. It was coordinated by Dr MP Dale and Dr KS Tiwari, with Dr PB Chopade (HoD, E&TC) as the conveners. MESCOE management, including Principal Dr SS Sarawade extended whole hearted support. A lecture by Dr G R Patil, AIT, Pune, on "Digital Communication - Spread Spectrum Modulation" was conducted on **Dec 7, 2020**.
- **ISF at Dept of E&C, Stella Mary's College of Engineering (SMCE), Nagercoil**, celebrated 67th IETE Foundation Day on **Nov 2, 2020**, in association with ELECTAS and IETE PAC Nagercoil, on "Social and

Environmental Impact Due To Digital Transformation". Shri N Michael Franklin, Assoc Prof & Head, Dept of ECE, welcomed the participants. Dr Arumuga Perumal, Chairman, IETE Nagercoil PAC, shared his views on the theme in his address. About 50 students including faculty joined in. The programme concluded with vote of thanks by Ms Akshal Jasmine.

- A guest lecture was organized by the **ISF at Mepco Schlenk Engineering College (MSEC), Sivakasi**, on "Energy Efficiency and IOT" on **Nov 7, 2020**. The event was inaugurated by Shri S Sangaranarayanan, Energy Analyst, S PowerZ Solutions Pvt Ltd, Chennai. The welcome address was given by Ms S Nivedha. Dr R Shantha Selvakumari, Prof & HoD/ECE and President ISF, MSEC, was present. The programme was coordinated by Dr A Kamaraj, AP/ECE & Faculty advisor. The programme was well received and joined in by more than 400 students.
- Dr Yashwanth N, Dept of ECE, RIT, Hassan, delivered a talk at Dept of ECE, **ISF-Rajeev Institute of Technology (RIT), Hassan, Karnataka**, on "Underwater Wireless Networks" on **Nov 13, 2020**. It was arranged in association with IETE, Mysuru Centre. Eminent personalities present and addressed the viewers were: Dr Rachana Rajeev, Trust President, Dr Ramakrishna, Principal /RIT.
- The webinar on "Restructuring your Professional Skills" was organized by the **ISF at MGM College of Engineering and Technology (MGM CET), Pampakuda, Kerala** on **Nov 20, 2020** in association with IETE Kochi Centre. The speaker, Mr Alex Mathew, Founder & CEO, T-Horizon, said that the scope of all the engineering sectors bestow belief and conviction in students towards their professional qualifications. He advised students to acquire skills along with their studies in order to sustain in today's competitive world. Students participated actively.

Awards & Achievements



Prof Bhim Singh (F-121508L) FNAE, FNA, FNASc, FASc, FTWAS, FIEEE, FIET, FIETE, FIE(I) CEA Chair Professor, Dept of EE, Indian Institute of Technology, Delhi, has won numerous accolades in his academic career. The recent awards and honours conferred on him include: "**International Solar Alliance-Haryana Kalpana Chawla Solar Award 2020**", "**INAE Outstanding Teacher Award-2020**"; "**IEEE IAS Outstanding Educator/Mentor Award-2020**" and the "**Eminent Engineer Award for the year 2020**" from The Institution of Engineers (India), Delhi State Centre. Prof Bhim Singh's contribution and dedication as one of the key editors to *IETE Journal of Research* and *IETE Technical Review*, is commendable and admirable. **Heartfelt congratulations to him!**



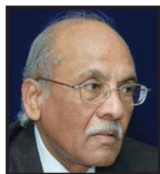
Dr Ratnadeep Deshmukh (F-203171L) has been appointed as a member of **All India Board of Information Technology Education (AIB-ITE)** formed by All India Council of Technical Education (AICTE).

The AIB-ITE was formed to review syllabus and pattern of three year MCA course and design two-year MCA courses syllabus. The duration of MCA was reduced by one year. Dr Deshmukh, Professor in computer science and information technology (CSIT) is a Chairman of the Board of Studies and member of the Academic Council. **Congratulations on his well deserved success!**



Ranjith C (M218532L) Principal, KMCT College of Engineering and Member, IETE Kozhikode Sub-Centre has been awarded a **PhD degree in Electronics and Communication Engineering** by Anna University for his work entitled "Embedded Evolvable Hardware design of digital circuits using Bio-inspired algorithms" under the guidance of Dr Joy Vasantha Rani S P, Associate Professor, Electronics Engineering Department, MIT Campus, Chennai. He is a life member of ISTE and member of IEEE. His areas of interests are VLSI, reconfigurable architecture, evolvable architectures and digital signal processing using VLSI. **Congratulations and best wishes to him!**

In Memoriam



Shri Y L Agarwal (DF-023504) the Distinguished Fellow (1987-88) and Past President IETE (1986-89) passed away on 10th Oct 2020. He was born on 20th Sep 1936. Shri Agarwal was having rich experience in Telecom and Broadband Services and worked for organizations like –TCIL; HFCL; Kongsung Telecom Ltd; Infotel Business Solutions Ltd; AAPKA Geothermal Power Underground Pvt Ltd; HFCL Advance Systems Pvt Ltd; Electronics Systems Punjab Ltd. and Plura Solutions Pvt Ltd. He was also engaged with the Audit Committee of Infotel Business Solutions Ltd. Shri Agarwal steadfastly steered organizations he worked for, with his wisdom and foresight. In TCIL he rose to the position of CMD and probably was the youngest CMD of any Govt. PSU at that time. He forged ever-stronger international partnerships for TCIL and HFCL. Shri Agarwal was the first President of Pacific Telecommunication Council of India established in 1994 and also acted as the leading expert in the think tank on telecom policies in India, bringing expert knowledge to bear on government decision-making.

One of the heroic roles played by Shri Y L Agarwal that not many people know of was his contribution in rescuing 180 members of the TCIL Project Team who were stranded in Kuwait in 1990 by bringing them back in the face of advancing Iraqi army. Shri Agarwal saw to it that all but two members were brought back to India safely and securely. The two members who stayed back did so voluntarily because they promised to rescue the telecom cable so that Kuwait nationals could communicate with the rest of the world. A Bollywood film 'AIRLIFT' has also been made with actor Akshay Kumar who played a memorable role of rescuing Indians stranded in war-ravaged Kuwait. Shri Agarwal was commended for his brave action by the then MOC Shri Rajesh Pilot and also by the ruler of Kuwait who was immensely pleased and delighted hearing the story of 'the committed workers of TCIL'.

Shri Y L Agarwal had a charismatic personality, a great sense of humour and a special ability to put people at ease when around him. He helped countless people in the course of his work and exerted a lasting and benign influence on others and in doing so gave value and meaning to his own life. IETE fraternity expresses profound grief on his demise.



Dr S R Gowariker (F-014406) Former Chairman, IETE Chandigarh Centre (1986-89) and Former Director, CSIR-CSIO, Chandigarh, left for heavenly abode on 30th Oct 2020. Dr Gowariker did his Master's and Doctoral degrees in chemical engineering from Birmingham University, England. His collaboration with Dr F H Garner during the doctoral research resulted in the Garner-Gowariker theory, which was a novel analysis of heat and mass transfer between solids and fluid. At the instance of Dr Vikram

Sarabhai, Dr Gowariker joined the Space Centre at Thumba, Thiruvananthapuram in 1967 as Propellant Engineer. Later, Dr Gowariker became Director of the Chemicals and Materials Group in 1973, and finally the Director of the Centre in 1979 and continued in that post till 1985. He provided professional leadership in making the critical solid fuel technology for India's launch vehicles totally indigenous and comparable to that in advanced countries. ISRO's 'Solid Propellant Space Booster Plant' was set up over 5,500 acres of land under his leadership. All strategic raw materials were researched, developed and produced in various plants set up under his stewardship. Dr Gowariker was Secretary to the Government of India, Dept of Science and Technology (DST) from 1986 to 1991. He also functioned as Scientific Advisor to the Prime Minister from 1991 to 1993. One of his noteworthy contributions was the development of the first indigenous weather forecasting model for predicting monsoon precisely. This was operationalised under his leadership. He was appointed as Vice-Chancellor, Pune University and was chairman of the Marathi Vidnyan Parishad between 1994 and 2000. Dr Gowariker along with his associates also compiled the Fertilizer Encyclopedia (2008) that featured 4,500 entries detailing the chemical composition of fertilizers, and all information right from their manufacturing and application to their economic and environmental considerations.

Dr Gowariker contributed actively as Chairman Chandigarh Centre including his sincere efforts in getting the plot allotted to the Centre from the Chandigarh Administration, where the Centre building stands today. We extend our deepest condolences and sympathies to his family and friends on his sad demise.

Prof S K Srivastava (F-069560) passed away on 30th Oct 2020. He served IETE as Chairman IETE Varanasi Sub-Centre. He will always be remembered for his great contribution to the institution.



Shri A B Srinivasan (F-015089) passed away on 31st Aug 2020. He had an excellent academic record. He graduated from College of Engineering, Guindy and obtained post graduation in electronics design technology from Indian Institute of Science, Bangalore with distinction. He held various positions in Indian Railways and served as Dean of Indian Railway Institute of Signal Engineering & Telecommunications (IRISET), Secunderabad. He was Chief Signal & Telecommunication Engineer at Chennai and Bengaluru before he retired.

Shri Srinivasan made significant contributions to IETE Hyderabad and Bangalore Centres. He was Jt Secretary at Bangalore during 2004-06 and Hony Treasurer during 2006-08, 2010-12 & 2014-17 and Vice Chairman 2017-18. A soft spoken person, Shri Srinivasan was loved by all who knew him and more particularly, members of IETE Bangalore. He was successful in

... In Memoriam


motivating and helping IETE students.



Shri K Anand Kumar (F-134430) passed away on 12th Aug 2020, aged 74. He completed GradIETE after BSc from Bangalore University and passed MTech in electronics from GCT, Coimbatore. He worked at BEL and thereafter ran a startup called PE Systems and moved to NSIC, Govt of India, where he retired as CGM in 2006. Shri Anand Kumar was known for his innovative thinking and management skills. We extend our deepest condolences and sympathies to his family and friends.



Shri Puneet Bisht (IETE HQs staff member): It is with great sadness we inform you the passing away of our colleague Shri Puneet Bisht on 18th Jan 2021. He joined IETE HQ on 10th April 2002 and served in various sections of IETE. He has been a valued member of our team at IETE HQs since his joining. He is survived by his wife and a son. He will be missed by many of us. We express our deepest condolences to the family and wish them courage and peace during the time of mourning.



THE INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS (IETE)

CORPORATE MEMBERSHIP DETAILS

- This information is required to update your details in IETE database for future communication.
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- Please send it at IETE, # 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

Inspiring IETE Woman Achiever



Dr Shail Bala Jain (F-052202L), Professor (ECE), now retired, belongs to an era when engineering was not a preferred choice for girls. She was the first woman to take admission in and graduate from Delhi College of Engineering (now DTU) as a BE (EE) in 1968. From vacuum tubes to ICs, from DSP to Artificial Intelligence - she has witnessed and actively participated in the meteoric growth in the field of Electronics and Communication.

Her very illustrious career has spanned 41 years of teaching: 31 years in DCE, and 11 years as HoD (ECE) in Indira Gandhi Institute of Technology (first engineering college for women under GGSIP University). She founded the IEEE branch in IGIT and remained counselor from 2002 to 2012. Mrs Jain has guided 9 students through their PhDs. She has published more than 40 papers in international and national journals of repute. Post retirement she has worked as Advisor (Academic Affairs) in Indira Gandhi Delhi Technical University, the very first technical university for women started in 2013. Under her experienced guidance and supervision, the course curricula for various BTech/MTech programs, Career Advancement Scheme (CAS), faculty feedback scheme, were designed and launched.

She has co-authored two books, which are widely used by engineering students globally, namely- *Linear Integrated Circuits*, published by New Age in 1991, and *Electronic Devices and Circuits*, published by PHI in 2007. She is recipient of many awards: National Talent Scholarship (1963-1968) for topping Higher Secondary Board in Delhi, 'Distinguished Alumni' award in 2006 by DCE, and the 'Fourth Best Researcher Award' by GGSIP University in 2010.

Message

Believe in yourself. Success depends upon your will. It is all in the state of mind. Life's battles don't always go to the stronger or faster. Sooner or later you will win. BUT only if you think YOU CAN.

... Dr Shail Bala Jain

New IETE Members enrolled/upgraded during Apr 2019 to Dec 2020

S.N.	MEM	CAT	Name
1	501767	A	Shaik,Shabana Begum, Dr
2	501802	A	Vedanuragananda Swami
3	501851	A	Paul, Prosanta Kumar
4	501542	AM	Pandya,Rahul J, Dr
5	501543	AM	Apurva
6	501553	AM	Ankita
7	501554	AM	Banoth,Narasimha
8	501555	AM	Paul,Soumya, Dr
9	501556	AM	Shah,Priyanka
10	501557	AM	Polagoni,Srinivas
11	501593	AM	Singh,Vineet Kumar
12	501595	AM	Parimal, Tiwari
13	501596	AM	Paritosh,Tripathi
14	501594	AM	Shukla,Shambhavi, Dr
15	501597	AM	Mishra,Ramesh
16	501640	AM	Pandi,Soundra
17	501649	AM	Kumar,Prateek
18	501650	AM	Kumar,Brajesh
19	501651	AM	Prathipati,Sudhakar
20	501652	AM	Chinmaya Srichandan,J
21	501653	AM	Balaji,Purusothaman
22	501654	AM	Kumar,Deepak
23	501655	AM	Singh,Nitesh Kumar
24	501656	AM	Naik, Pratapsingh D
25	501657	AM	Rajak,Rakesh Kumar
26	501658	AM	Saravanakumar, E
27	501659	AM	Srivastava,Ankur
28	501660	AM	Kumar,Harish
29	501661	AM	Guruprasad,A S
30	501662	AM	Bose,Sree Sanjanaa
31	501663	AM	Mujawar,Mehaboob
32	501670	AM	Srivastava,Kishor
33	501678	AM	Pallavi, M
34	501679	AM	Sindhu, N
35	501760	AM	Anitha,R, Dr
36	501761	AM	Ganesh Kumar, K R
37	501762	AM	Amit Kumar
38	501763	AM	Saru Priya,S
39	501764	AM	Agha,Ayush
40	501765	AM	Rastogi,Mansi
41	501766	AM	Mahale,Avinash G,Prof
42	501768	AM	Thamarai Selvi,G,Dr
43	501769	AM	Rajarajan,S, Dr
44	501770	AM	Saravanan,G,Dr
45	501771	AM	Sweetline Shamini,S
46	501772	AM	Ravindran, A
47	501773	AM	Subashini,V
48	501774	AM	Valarmathi,G
49	501775	AM	Sangeetha,K
50	501776	AM	Pushgara Nani, D
51	501777	AM	Prasath Kumar,S
52	501778	AM	Saritha,G
53	501779	AM	Sivasankari,K
54	501780	AM	Oral Roberts,N
55	501781	AM	Lakshmi Devi,R
56	501782	AM	Janaki,R
57	501783	AM	Suganthi,Su
58	501784	AM	Ramaprasad,Maharana
59	501785	AM	Prabha,R,Dr
60	501786	AM	Bharathi,G P
61	501787	AM	Narasimman,V
62	501788	AM	Sumathi,K
63	501811	AM	Mariselvan,M
64	501850	AM	Sowjanya A
65	501936	AM	Rohini
66	501940	AM	Murali,A S
67	501941	AM	Sharath,K N
68	501986	AM	Garg,Harshit
69	501987	AM	Singhal,Kratika
70	501988	AM	Agarwal,Anshul
71	501989	AM	Jain,Rachit
72	501990	AM	Pradhan,Sandeep
73	502036	AM	Chilukuri,Venkateswara Rao
74	502035	AM	Prasad,M V R Vara
75	502034	AM	Namburi,Durga Naga Lakshmi
76	502033	AM	Beera,Elisha Raju
77	501521	F	Deshpande,Aniket Satish
78	501522	F	Lokam,Anjaneyulu,Dr

S.N.	MEM	CAT	Name
79	501523	F	Gomathy C,Dr
80	501524	F	Abbasi,Tehzeeb Ahmed
81	501525	F	Disawal,Reena Sunil,Dr
82	501526	F	Aggarwal,Ashwini Kumar,Dr
83	501527	F	Thenmozhi,Dr
84	501529	F	Bhattacharyya,Partha,Dr
85	501530	F	Sohrab,Hanif
86	216387	F	Vijay Kumar M
87	208807	F	Navalgund,Siddalingesh S
88	501528	F	Kshirsagar,Suman,Dr
89	102316	F	Garg,Gaurav
90	237804	F	Latha,R,Dr
91	501531	F	Anitha Sheela K,Dr
92	501532	F	Kaur,Harleen,Dr
93	501533	F	Kalra,Mala,Dr
94	501534	F	Kulshrestha,Sanjeev S
95	501535	F	Loan,Sajad Ahmad,Dr
96	212148	F	Mehta,Rahul D,Dr
97	501536	F	Mohanty,Sachi Nandan,Dr
98	218845	F	Porwal,Mahesh Kumar,Dr
99	501537	F	Acharya,Subrat Kumar
100	501538	F	Surya Narayana V Y
101	227816	F	Jaganmohan Reddy,Y,Dr
102	191911	F	Vijendra Babu,D,Dr
103	123955	F	Kulantaivel,G,Prof(Dr)
104	232035	F	Punee B, Cdr
105	500010	F	Dimri,Pradeep Kumar,Dr
106	177705	F	Nadgir,Madhusudhan M,Dr
107	202257	F	Keraliya,Divyesh R,Dr
108	501549	F	Gupta,Vivek
109	501547	F	Shukla,Vinay Kumar
110	501548	F	Shah,Ashish Rameshchandra
111	501544	F	Padhi,Radhakant,Dr
112	501545	F	Kirubandasarathy,N,Dr
113	501550	F	Apparao Naidu,G,Dr
114	501546	F	Kumar,Sanjiv,Dr
115	501565	F	Ghuratia,Sanjiv,Air Cmde
116	501569	F	Kumar,Rajiv,Dr
117	081192	F	Mukhopadhyay,Arup Kumar
118	218518	F	Yadav,Shatrughna Prasad,Dr
119	208781	F	Ashok Kumar,L,Dr
120	218533	F	Sabiq,P V,Dr
121	501568	F	Rama Krishna,C,Dr
122	501567	F	Suresh,P
123	501566	F	Nageswara Rao,K,Dr
124	501571	F	Bhardwaj,Amitabh
125	501572	F	Shashidhar,K, Lt Col
126	064236	F	Agarwal,Saurabh Chandra
127	198754	F	Prabhakar D Khandait,Dr
128	198753	F	Sunanda P Khandait,Dr
129	501570	F	Kumar,Rakesh,Dr
130	182422	F	Gupta,Praveen Kumar,Dr
131	501598	F	Poddar,Rajiv Kumar
132	170068	F	Bhardwaj,Aashish,Dr
133	139163	F	Mishra,Ramapati,Dr
134	203187	F	Shukla,Sachchidanand,Dr
135	081119	F	Belgaonkar,Manoj R
136	087544	F	Vadhi,Radhika,Dr
137	177262	F	Maurya,Shivendra,Dr
138	176045	F	Jaisingh,T,Dr
139	236785	F	Gade,Dipak Shamlal,Dr
140	232560	F	Jayan,K
141	500449	F	Palande,Sunil Pandurang
142	501459	F	Aggarwal,Bhawna,Dr
143	222204	F	Patra,Dusmanta Kesari
144	189183	F	Vernekar,Dattprasad B,
145	230247	F	Satya Prasad,K
146	501604	F	Lohani,Kamal
147	501605	F	Vittal,M V R,Dr
148	501603	F	Mahajan,Shrinivas P,Dr
149	501602	F	Aravind Kumar,M,Dr
150	501601	F	Vaddi,Ramesh,Dr
151	501600	F	Gupta,Julii,Dr
152	501606	F	Pandey,Anil Kumar,Dr
153	501599	F	Pradeep,C,Dr
154	055809	F	Kumar,Sudhir
155	062170	F	Bhatt,Vikas Kumar
156	135753	F	Yadav,Santosh Kumar,Dr

S.N.	MEM	CAT	Name
157	169092	F	Hegde,Ganapathi,Dr
158	189099	F	Venkateswarlu,G
159	191975	F	Khalsa,Nikkoo,Narendrasingh,Dr
160	217680	F	Mankar,Vijay H,Dr
161	219653	F	Mohana Kumar,S,Dr
162	222243	F	Gangwar,Veer Singh
163	223243	F	Kedar,Ashutosh,Dr
164	230501	F	Kumar,Vivek,Dr
165	500087	F	Singhal,Sunita,Dr
166	501452	F	Ahmed,Jawed,Dr
167	501641	F	Singh,Vijay Kumar,Dr
168	501642	F	Muppalaneni,Naresh Babu,Dr
169	501643	F	Pandey,Balendu Kumar
170	501644	F	Sahana,Sudip Kumar,Dr
171	501645	F	Vidhya,J,Dr
172	501646	F	Madhubal,B,Col
173	501647	F	Saravanan,M,Dr
174	501648	F	Tripathi,Suman Lata,Dr
175	501706	F	Hanmandlu,S
176	501707	F	Suresh,K
177	501708	F	Pedda Suresh,Ogeti,Dr
178	501709	F	Rajeshwar,M
179	501710	F	Vinod Kumar,A V
180	501711	F	Bindu Madhavi,K
181	501712	F	Muralikrishna,B
182	501713	F	Gupta,Raghavendra,T
183	501714	F	Surendra Reddy,B
184	501715	F	Shivaram,A N
185	501716	F	Harikrishna,K,Dr
186	501717	F	Sumitha,K V N,Dr
187	501718	F	Subha,S,Dr
188	501719	F	Santhanaraj,M
189	501720	F	Pal,Sumanta
190	501721	F	Megha P Arakeri,Dr
191	501722	F	Myna,A N,Dr
192	501723	F	Murthy,Niranjana H S,Dr
193	501724	F	Narayan,P,Dr
194	501725	F	Muraleedharan,N
195	501726	F	Radder,Umesharaddy,Dr
196	501727	F	Mishra,Puneet Kumar
197	501728	F	Mishra,Priyanka
198	501729	F	Shivashankaran,D
199	501730	F	Andrews,Ditin
200	501731	F	Balaji,R,Dr
201	501732	F	Das,Anirban,Dr
202	501733	F	Shivakumar,B L,Dr
203	501734	F	Dixit,Abhisek,Prof
204	501735	F	Lakshmi,S,Dr
205	501736	F	Gandhi,Tapan,Dr
206	501737	F	Praveen,N
207	501738	F	Saha,Snehanshu,Dr
208	501739	F	Kalambkar,Shripad Shiram
209	501742	F	Unnikrishnan, V J
210	501743	F	Kinnera Kiran
211	501744	F	Varshney,Vivek
212	501745	F	Padhy,Narayana Prasad,Dr
213	501746	F	Singh,Brajesh
214	501747	F	Sudha,M,Prof
215	501748	F	Gupta,Pankaj
216	501749	F	Perera,Ulde,Major
217	501750	F	Kaluarachchi,M M,Major
218	501751	F	Kodikara,K V A,Major
219	067668	F	Kavita Unnikrishnan
220	125957	F	Shahana,T K,Dr
221	062668	F	Tiwari,Sunil Kumar
222	222219	F	Raghunath,Swapna,Dr
223	198423	F	Sharma,Pankaj Kumar
224	501283	F	Rangababu,P,Dr
225	211910	F	Sharma,Deepak,Dr
226	107650	F	Garg,Rajesh Kumar
227	159872	F	Nigam,Chhabi
228	170124	F	Kumar,H C Sateesh,Dr
229	188607	F	Singh,Satish Kumar,Dr
230	198470	F	Sabeenian,R S,Dr
231	198541	F	Paramasivam,M E,Prof(Dr)
232	222245	F	Kumar,Pramod
233	228079	F	Parameshalhari,B D,Dr
234	234009	F	Prajapati,Tejpuj Anirudh,Dr

A = Associate

AM = Associate Member

F = Fellow

M= Member

ORG = Organizational Member

S.N.	MEM	CAT	Name
235	237276	F	Chepala,Anil Kumar,Dr
236	237768	F	Sai Rama Krishna,P
237	238164	F	Abdul Mannan,Syed,Dr
238	501286	F	Pal,Jitendra,Dr
239	501789	F	Geetha,S,Dr
240	501790	F	Ranjan Kumar Ram
241	501791	F	Bhattacharya,Shantanu,Prof
242	501803	F	Vimala,P,Dr
243	501804	F	Mridula,C
244	501805	F	Karthikeyan,R
245	501806	F	Rajagopal,A,Dr
246	501812	F	Manikandan,S,Dr
247	501813	F	Prabakar, T N,Dr
248	501815	F	Shivananda,M,A,Col
249	501814	F	Shubhangi,D C,Dr
250	081472	F	Wathare,Anil G ,Wg Cdr
251	202267	F	Gupta,Shilpi
252	501819	F	Sinha,Navin Kumar,Dr
253	501820	F	Ramkumar,J,Dr
254	501821	F	Srivastava,Sunil Kumar,Dr
255	501822	F	Timothy A Gonsalves,Dr
256	501823	F	Gupta,Om Prakash,Dr
257	501824	F	Neetu N Gyanchandani
258	501826	F	Srihari P,Dr
259	501827	F	Hari Kumar,B
260	501828	F	Suryanarayana,S,Dr
261	501829	F	Vijay Bhaskar,P,Dr
262	501830	F	Bhujanga Rao,S
263	501831	F	Agarwal,Pankaj Bhooshan,Dr
264	501832	F	Ogirala Vpr Sivakumar
265	501833	F	Mishra,Nagendra Nath
266	501825	F	China Ramu,S,Dr
267	501638	F	Sanjeev,Dr
268	230085	F	Negi,Baljeet Singh,Lt Col(Dr)
269	500100	F	Sreelakshmi G
270	190690	F	Singh,Lokendra Kumar
271	231965	F	Madhusudana Rao,V,Dr
272	177620	F	Gangadhara Rao,A
273	138324	F	Singh,Rajendra,Dr
274	184163	F	Khare,Ashish,Dr
275	500097	F	Sreelatha B
276	500098	F	Appala Raju,U
277	230424	F	Sudhakar P,Dr
278	500101	F	Laxmi,M
279	500099	F	Rachapally,Odaiah
280	198767	F	Rama Rao,Ch V,Dr
281	224667	F	Ruksar Fatima,Dr
282	500096	F	Satya Srinivas,V,Dr
283	159715	F	Rathod,Jagdishkumar M,Dr
284	158524	F	Joshi,J M,Dr
285	501869	F	Tiwari,Manoj Kumar,Dr
286	501855	F	Khondekar,Lutful Hassan
287	501854	F	Malashetty,Ravi S,Dr
288	501856	F	Yadav,Krishna Bihari,Dr
289	501853	F	Nagrare,Jitendra V
290	501859	F	Mathur,Sanjay,Dr
291	501858	F	Khatun,Hasina,Dr
292	501857	F	Narvekar,Meera Milind,Dr
293	181454	F	Pal,Udit Narayan,Dr
294	116442	F	Sharma,Rajendra Kumar,Dr
295	238142	F	Subhedar,Mansi Siddharth,Dr
296	172820	F	Perumal,T
297	143790	F	Stalin Y
298	501893	F	Shukla,Manish,Lt Col
299	501894	F	Bhandari,Rajender,Lt Col
300	501895	F	Dhar,Rudra Sankar,Dr
301	501896	F	Singh,Moutushi,Dr
302	501897	F	Ramasubramanian M,Dr
303	501898	F	Akhtar,Parvez
304	501899	F	Markam,Karuna,Dr
305	501900	F	Bhambare,Rajesh R
306	501901	F	Shaikh,Shakil Abdul Rajjak
307	501902	F	Lavhate,Seema S
308	501903	F	Kadu,Chandrakant B,Dr
309	501904	F	Vikhe,Pratap S,Dr
310	501905	F	Ahuja,Kiran,Dr
311	224896	F	Kumar,Rakesh
312	501341	F	Gangwar,Ravi Kumar,Dr
313	501907	F	Singh,Jagjit,Dr
314	501908	F	Malhotra,Neeru,Dr
315	501909	F	Das,Abhisek,Dr

S.N.	MEM	CAT	Name
316	501910	F	Guruprasad,V
317	211931	F	Narvaria,Ravindra Pratap,Dr
318	174379	F	Thakare,Rajesh Dattatray,Dr
319	215227	F	Ghosh,Surajeet,Dr
320	189118	F	Turkane,Satish Mohanrao,Dr
321	237808	F	Ansari,Abdul Hameed,Dr
322	090071	F	Suri,Alka,Dr
323	218549	F	Vaidhyathan,A
324	091119	F	Raghava Kumar,M V
325	501914	F	Ali,Maifuz,Dr
326	501915	F	Choodarathnakara,A L,Dr
327	236666	F	Prajapat,Ram Prakash,Dr
328	501539	F	Mukherji,Rana,Dr
329	501911	F	Kumar,Amrendra
330	501917	F	Singh,Anil Kumar,Dr
331	501919	F	Majhi,Sudhan,Dr
332	501924	F	Gupta,Atul
333	083061	F	Seth,Jyoti
334	232499	F	Kumar,Raman
335	501933	F	Pandey,Avinash
336	501934	F	Alankar,Bhavya,Dr
337	501935	F	Roy,Ranjit,Dr
338	057392	F	Ramamoorthy,S
339	056077	F	Guna Sekhar,P
340	501942	F	Niranjan
341	501943	F	Ambresh Prabhakar,P,Dr
342	219675	F	Samad,Abdus,Dr
343	501944	F	Khan,Munna,Prof(Dr)
344	501945	F	Swapna Rani,S,Dr
345	501946	F	Dwivedi,Sanjeet Kumar,Dr
346	501947	F	Dixit,Shishir,Dr
347	501948	F	Saxena,Shilpam,Dr
348	501949	F	Patibandla,Pavithra Roy,Dr
349	501950	F	Balodi,Arun,Dr
350	501951	F	Bajpai,Ambar,Dr
351	501952	F	Acharya,Sushanta Kumar
352	501953	F	Singh,Jawar,Dr
353	501954	F	Malviya,Liladhar,Dr
354	501955	F	Sharma,Raghavendra,Dr
355	501956	F	Bhanu Naidu,V
356	501957	F	Mamgain,Reena
357	501958	F	Chaudhuri,Debabrayag,Dr
358	501959	F	Ayesha Heena
359	501983	F	Kamal Dev,Kga,Brig
360	501991	F	Shankarlal,B,Dr
361	135141	F	Vijilini,Baby
362	131366	F	Shrivastava,Laxmi,Dr
363	109565	F	Patil,Sanjay Agatrao,Dr
364	217718	F	Yadav,Suresh Chandra
365	209735	F	Tiwari,Anupam,Wg Cdr
366	500259	F	Baruah,Ratul Kumar,Dr
367	501351	F	Shukla,Varun,Dr
368	165636	F	Kaundinya Kumar,S
369	176014	F	Varghese,Thomas
370	129806	F	Karuppusamy,M
371	237392	F	Agrawal,Suman
372	215213	F	Dubey,Hari Mohan,Dr
373	160440	F	Kumre,Laxmi,Dr
374	104557	F	Shekkari,Srinivas Goud
375	104273	F	Chaitanya,D M K,Dr
376	037498	F	Bajpai,Omprakash
377	202262	F	Vijayakumari,B,Dr
378	203212	F	Kamaraj,A,Dr
379	203215	F	Kalyana Sundaram,C
380	222251	F	Sathananthavathi,V,Dr
381	502009	F	Khade,Sachin Sheshrao,Dr
382	502031	F	Samvatsar,Mandar Sushil
383	201867	F	Barreto Fabian,T R
384	501674	F	Duksh,Yograj Singh,Dr
385	500444	F	Anbu Karuppusamy S,Dr
386	181426	F	Ahila Priyadarshini R,Dr
387	203203	F	Nidhyananthan,Selva S,Dr
388	181425	F	Sylvia Lilly Jebarani,W,Dr
389	203208	F	Senthil Kumar,J,Dr
390	500911	F	Benitha,V S,Dr
391	203191	F	Kushwah,Vivek Singh,Dr
392	216374	F	Bhatia,Rinkoo Anand
393	047753	F	Samvatsar,Sushil Manohar
394	106369	F	Srivastava,Rajeev
395	191931	F	Aravind B N,Dr
396	106368	F	Dwivedi,M M,Dr

S.N.	MEM	CAT	Name
397	109138	F	Sathanarayana,P
398	192363	F	Buch,Kaushal Dipak
399	502008	F	Padmavathy,N,Dr
400	502010	F	Sugumaran,S,Dr
401	502011	F	Chede,Santosh Devidaspant,Dr
402	502012	F	Revate,Suryakant Shankarrao,Dr
403	502013	F	Shelke Bharat Abhimanyu
404	502014	F	Nitware,Reshma Ramdas
405	502015	F	Subrahmanyam Ch,Dr
406	502016	F	Bala Raju,A
407	502017	F	Raut,Rajeshree Digambarao,Dr
408	502018	F	Abraham,Sheena
409	502019	F	Belsare,Amoli Devesh,Dr
410	502020	F	Singhal,Sunil Kumar
411	502021	F	Dhonde,Somnath Babarao,Dr
412	502022	F	Trupti,Ranjan Lenka,Dr
413	502023	F	Sawant,Ranjit Krishnarao,Dr
414	502024	F	Sharma,Jaswant Mangilal
415	502025	F	Jangid,Dinesh Kumar
416	502026	F	Mahajan,Milind Bhagwanrao,Dr
417	502027	F	Vijaya Vardhan Reddy,P,Dr
418	502028	F	Awasthi,Ratnakar
419	502029	F	Verma,Shivani,Dr
420	502030	F	Karumanchi,Balaji
421	502032	F	Negi,Atul,Dr
422	502037	F	Narvekar,Chhaya Gunaji
423	502039	F	Dhumal,Sushama Rajaram
424	502038	F	Marri,Sreenath Reddy,Dr
425	501539	M	Mukherji,Rana,Dr
426	501540	M	Duvvuru,Rajesh
427	501541	M	Patro,Kiran Kumar,Dr
428	501552	M	Keerthi Priya,B
429	501551	M	Biswas,Debabrata,Dr
430	501560	M	Narsimulu,S
431	160240	M	Sharma,Hitesh Kumar
432	184188	M	Esakkirajan,S,Dr
433	501558	M	Ganesh Babu,R,Dr
434	107411	M	Balachandran,R,Dr
435	501559	M	Sahu,Shridhar R
436	501564	M	Ashalatha,S
437	501563	M	Ram Mohan Rao,K
438	501562	M	Deepika Rathod,B
439	501561	M	Prathyusha,V
440	236236	M	Rajput,Aman
441	501592	M	Selvakumar,D,Dr
442	501574	M	Pradhan,Subhrajit
443	501575	M	Panda,Subodh,Dr
444	501576	M	Apparao,T
445	501577	M	Patnaik,Srikant
446	501578	M	Patro,Ajit Kumar
447	501579	M	Rout,Ranjita
448	501580	M	Patra,Radha Nath
449	501581	M	Parida,Ami Kumar
450	501582	M	Prasad,Bibhu
451	501583	M	Mallick,Bandana
452	501584	M	Panda,Tusara Kanta
453	501585	M	Mishra,Padmini
454	501586	M	Mehta,Purnima Lala,Dr
455	501587	M	Srivastava,Geetika,Dr
456	501588	M	Verma,Pradeep Kumar
457	501589	M	Kumar,Chandan
458	501590	M	Rajput,Priti J
459	501591	M	Balaji,V R,Dr
460	210650	M	Shinde,Rajeshree A,Dr
461	501573	M	Sonawane,Jayashree R
462	501620	M	Aliveni,E
463	501619	M	Surender,B
464	501621	M	Venu,A
465	501622	M	Kumarswamy,D
466	501623	M	Sudhakar,V
467	501624	M	Venkataramanaiah,B
468	501625	M	Deivaraja,R
469	501618	M	Shankar,E
470	501617	M	Srinivas,L
471	501616	M	Subramanyam,S
472	501615	M	Venugopal Rao,K
473	501614	M	Ashok Kumar,S,Dr
474	501613	M	Mali,Swapnil G
475	501612	M	Bullusu S S K Chaitanya,Dr
476	501611	M	Prasad,Binod Kumar,Dr
477	501610	M	Kumar,Nitin,Dr

S.N.	MEM	CAT	Name
478	501609	M	Kalluri,Sujith,Dr
479	501607	M	Dhanalaxmi,B,Dr
480	501608	M	Sowjanya,K,Dr
481	133541	M	Sreekrishnan,K A,
482	160851	M	Sumesh,K M
483	192363	M	Buch,Kaushal Dipak
484	501626	M	Gomathi,R
485	501627	M	Buch,Saket Dipak
486	501628	M	Sagaya,Selvaraj,A
487	501629	M	Senthil Kumaran,R,Dr
488	501630	M	Vallathan,G,Dr
489	501631	M	Kalpana,S
490	501632	M	Chavan,Gauri Rakesh
491	501633	M	Chaugule,Archana Satish
492	501634	M	Reddi,Surya Prakash Rao,Dr
493	501635	M	Garg,Manmohan,Dr
494	501636	M	Chandra Sekhar,S
495	501637	M	Bukya,Bharat Kumar
496	501638	M	Sanjeev,Dr
497	501639	M	Simu,Shreyas Ajitkumar,Dr
498	501664	M	Ramya,H R
499	501665	M	Sharma,Abhishek
500	501666	M	Murdeshwar,A V
501	501667	M	Arvind Kumar,G
502	501668	M	Kusuma, S M
503	501669	M	Sengar,Shailendra Singh
504	501671	M	Wajeed Basha,S
505	501672	M	Deepthi,K
506	501673	M	Nandwani,Rohit Kumar
507	501674	M	Duksh,Yograj Singh,Dr
508	501675	M	Dolly,T,Dr
509	501676	M	Bhattacharyya,Somak,Dr
510	501677	M	Dutta,Kusumika Krori
511	501680	M	Bikshalu,K,Dr
512	501681	M	Chowdari,Pratyusha C H
513	501682	M	Hima Suseela,R S
514	501683	M	Hima Bindu,V
515	501684	M	Lakshmi Chaitanya,D,Dr
516	501685	M	Jugge,Praveen,Dr
517	501686	M	Swetha,N,Dr
518	501687	M	Chadha,Anupama,Dr
519	501688	M	Maurya,Rakesh Kumar,Dr
520	501689	M	Singh,Anil Kumar,Dr
521	501690	M	Gupta,Amit Kumar
522	501691	M	Chaya Devi,K S,Dr
523	501692	M	Gupta,Gaurav
524	501693	M	Ravi Naragani
525	501694	M	Sindhu,P
526	501695	M	Satyaranayana,G
527	501696	M	Swathy,P
528	501697	M	Kondalarao,P
529	501698	M	Ahuja,Vinod Kumar
530	501699	M	Moshe Rani,V
531	501700	M	Anitha Kumari,T
532	501701	M	Naresh,R
533	501702	M	Anil Kumar,K
534	501703	M	Suresh,C
535	501704	M	Santhosh,P
536	501705	M	Madhuri,P
537	501740	M	Sadashiva V Chakrasali
538	501741	M	Parihar,Dependra Singh
539	501752	M	Mulik,Jagannath Mahadeo,Captai
540	501753	M	Meena,Ramkesh
541	501754	M	Anil Kumar,P N V
542	501755	M	Roy,Kaushik,Dr
543	501756	M	Chilaka,Ashok Babu
544	501757	M	Satheesh Kumar,D
545	501758	M	Bhunia,Abhinandan
546	501759	M	Chaudhary,Raghendra Kumar,Dr
547	232019	M	Joshi,Siddharth Sanjaykumar,Dr
548	153973	M	Azeez Basha,Mohd
549	224731	M	Jagadeeswaran,N
550	501792	M	Malik, Aruna,Dr
551	501793	M	Paik,Harikrishna,Dr
552	501794	M	Kolap,Jyoti K
553	501795	M	Gracias,Joslyn Benalva
554	501796	M	Maheshwaram,Satish,Dr
555	501797	M	Narendar,V,Dr
556	501798	M	Pandey,Alpana,Dr
557	501799	M	Shrivastava,Bhavana Prakash,Dr

S.N.	MEM	CAT	Name
558	501800	M	Praveen Kumar,K
559	501801	M	Kumar,Hemant,Dr
560	501807	M	Siddalingappagouda,Biradar,Dr
561	501808	M	Bhatia,Ramandeep Kaur
562	501809	M	Bhatia,Navneet Singh
563	501810	M	Gowdar,Chinna V
564	501817	M	Paras,Dr
565	501816	M	Kandpal,Jyoti
566	501818	M	Verma,Reeta
567	501834	M	Tushar S Samnerkar
568	501835	M	Kumar,Sachin,Dr
569	501836	M	Saritha S,Dr
570	501837	M	Spandana,S,Dr
571	501838	M	Vallisree S,Dr
572	501839	M	Chathar Singh,M
573	501840	M	Ramu B
574	501852	M	Sivaramakrishna,Y
575	501841	M	Chandra Prakash Reddy, P
576	501842	M	Chinta,Sandeep
577	501843	M	Sirisha V
578	501844	M	Yagnasree S
579	501845	M	Anand M
580	501846	M	Padmapriya, V S
581	501847	M	Mrudula,J
582	501848	M	Amatha B
583	501849	M	Priya M S
584	235852	M	Pachgare,Anup A
585	237391	M	Shivakumar M,Dr
586	500111	M	Subramanyam,A
587	501860	M	Moghe,Piyush,Dr
588	501861	M	Moghe,Sneha
589	501862	M	Lal,Nitesh Kumar
590	501863	M	Nancy W
591	501864	M	Ambresh,B
592	501865	M	Mondal,Soumen,Dr
593	501866	M	Abhishek,Anand
594	501867	M	Shukla,Sushil Kumar,Dr
595	232722	M	Kumar,Niraj,Dr
596	501868	M	Tomar,Abhishek,Dr
597	234023	M	Kumar,Ashok
598	501870	M	Anap,Sachin Dattatray
599	501871	M	Jadhav,Vilas Kashinath
600	501873	M	Parsediya,Deep Kishore
601	501874	M	Chattopadhyay,Arup Kumar
602	501875	M	Sahoo,Pooja
603	501876	M	Doshi,Dipti Anurag
604	501877	M	Chittar,Pankaj Pramod
605	501878	M	Gaikar,Machindra Ramnath
606	501879	M	Bangal,Swapnil Pandurang
607	501880	M	Kale,Suhas Raosaheb
608	501881	M	Bhosale,Varsha Pradip
609	501882	M	Jondhale,Amruta Satish
610	501883	M	Balasaraf,Manisha Dinesh
611	501884	M	Shirsath,Satish M
612	501885	M	Lokhande,Nitin N
613	501886	M	Takate,Vrushali S
614	501887	M	Mandlik,Sachin B
615	501888	M	Turakne,Sandip S
616	501889	M	Kadu,Ranjeet Ashok
617	501891	M	Warule,Pankaj C
618	501892	M	Aher,Sandip R
619	501906	M	Rane,Digambar Bhaskar
620	217730	M	Saha Ray,Sanchita
621	501913	M	Bhardwaj,Neha
622	501912	M	Johari,Punit Kumar
623	501918	M	Mishra,Himanshu Bhusan,Dr
624	501916	M	Das,Ashish Xavier
625	501920	M	Karnatak,Himanshu
626	501921	M	Singh,Madhav
627	501922	M	Singh,Alok,Dr
628	501923	M	Sahoo,Manodipan,Dr
629	501925	M	Bhadra,Bias
630	501926	M	Bhattacharya,Saunak
631	501927	M	Verma,Priyanka,Dr
632	501928	M	Das,Soham
633	501929	M	Aruna,K
634	501930	M	Naresh,M
635	501931	M	Koteswara Rao,K
636	501932	M	Keerthi Nayani,A S
637	501872	M	Aher,Vishal Anil
638	501890	M	Kadu,Rahul Nandkumar

S.N.	MEM	CAT	Name
639	501937	M	Savita,G
640	501938	M	Dubey,Rahul,Dr
641	501939	M	Chaturvedi,Ajay
642	501960	M	Dhake,Diplai Nilesh
643	501961	M	Naik,Rakesh Kumar
644	501962	M	Sharma,Santosh
645	501963	M	Patidar,Deepak
646	501964	M	Vyas,Anupam,Dr
647	501965	M	Indira Priyadarshini,B
648	501966	M	Shravan Kumar,K
649	501967	M	Vijetha,K
650	501968	M	Sravani,P
651	501969	M	Pandey,Bishwajeet Kumar,Dr
652	501970	M	Ravi Kumar Reddy,P
653	501971	M	Garg,Anurag,Dr
654	501972	M	Shanmugham,B,Dr
655	501973	M	Ashok Kumar,K,Dr
656	501974	M	Makwana,Rajni Ranjan,Dr
657	501975	M	Shobhika P,Gopnarayan
658	501976	M	Waghmare,Vishal B,Dr
659	501977	M	Asurlekar,Medha S
660	501978	M	Sheetal Girish,Jagtap,Dr
661	501979	M	Soni,Binod Kumar,Dr
662	501980	M	Duvey,Ashish
663	501981	M	Hugar,Shobha Irappa
664	501982	M	Vivek Gopal,Lt Col
665	501984	M	Agrawal,Rahul
666	501985	M	Chennoji,Usha
667	502040	M	Raju,P
668	502041	M	Patsariya,Mohan
669	501993	M	Chisti Khwaja Muinuddin Md
670	501994	M	Sarkar,Argha,Dr
671	501995	M	Murthy,S V S N
672	501996	M	Kotta,Kiran
673	501997	M	Akuri,Nagaganesh
674	501998	M	Durga Prasad,D
675	501999	M	Rayudu,Bharath Kumar
676	502000	M	Manaswi D,Dr
677	502001	M	Bhargavi,S
678	502002	M	Sivvam,Sandeep
679	502003	M	Santhosh Kumar,G
680	502004	M	Patil,Lalit Gopalbhai
681	502005	M	Chaudhari,Amol Avinash
682	502007	M	Tiwari,Devesh
683	502006	M	Ubale,Archana Santosh
684	501992	M	Ahire,Sandhya Onkar
685	G00565	ORG	Malla Reddy College of Engg, Secunderabad
686	G00566	ORG	Netaji Subhas University & Tech, New Delhi
687	G00567	ORG	Sri Padmavati Mahila Univ, Tirupati
688	G00568	ORG	Jorhat Institute of Science & Tech, Jorhat
689	G00570	ORG	Dr Babasaheb Ambedkar Technology, Raigad
690	G00569	ORG	Vemu Institute of Technology, Chittoor
691	G00571	ORG	Dhanalakshmi Srinivasan College, Coimatore
692	G00573	ORG	Dr T Thimmaiah Inst of Technology, Karnataka
693	G00572	ORG	Sree Dattha Inst of Engg And Science, Ranga Reddy
694	G00575	ORG	Tripura Inst of Technology, West Tripura
695	G00574	ORG	JSPM's Rajarshi Shahu College, Pune
696	G00576	ORG	Airforce Technical College, Bangalore
697	G00577	ORG	Dr K V Subba Reddy Inst of Tech, Kurnool
698	G00578	ORG	Gharda Institute of Technology, Ratnagiri
699	G00579	ORG	SRM Institute of Mgmt And Tech, Ghaziabad
700	G00580	ORG	Anantha Lakshmi Inst of Tech, Anathapur
701	G00582	ORG	Sri Manakula Vinayagar Engg College, Puducherry
702	G00581	ORG	Madhav Institute of Technology, Gwalior
703	G00583	ORG	B I T Sindri, Dhanbad

A = Associate

AM = Associate Member

F = Fellow

M= Member

ORG = Organizational Member

IETE in News...

हाइब्रिड इलेक्ट्रिकल के डिजाइन ने जीता प्रथम पुरस्कार

प्रथम पुरस्कार जीतने वाले विजेताओं की तस्वीरें और उनके नामों का उल्लेख।

महापुरुष जयंत का आयोजन

हाइब्रिड इलेक्ट्रिकल के डिजाइन में जीता प्रथम पुरस्कार।

वीयू में इंजीनियरिंग एंड टेक्नोलॉजी विभाग ने काईई वीकिंग मॉडल प्रतियोगिता

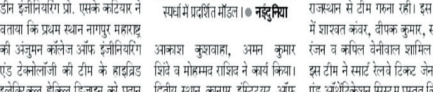
देशभर के 8 प्रदेशों से 36 टीमों ने की प्रतिभागिता।



विभाग के अध्यक्ष और अन्य अधिकारियों का उल्लेख।

हाइब्रिड इलेक्ट्रिकल ने जीता प्रथम पुरस्कार

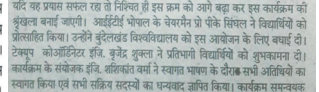
हाइब्रिड इलेक्ट्रिकल के डिजाइन में जीता प्रथम पुरस्कार।



विजेताओं के नाम और उनके विभाग का उल्लेख।

वीयू में इंजीनियरिंग एंड टेक्नोलॉजी विभाग ने काईई वीकिंग मॉडल प्रतियोगिता

देशभर के 8 प्रदेशों से 36 टीमों ने की प्रतिभागिता।



विभाग के अध्यक्ष और अन्य अधिकारियों का उल्लेख।

समय जगत 11

हाइब्रिड इलेक्ट्रिकल के डिजाइन ने जीता प्रथम पुरस्कार

विजेताओं के नाम और उनके विभाग का उल्लेख।

विभाग के अध्यक्ष और अन्य अधिकारियों का उल्लेख।

पर्सनल क्वालिटी इम्पूवमेंट पर डिस्कशन

पत्रिका PLUS रिपोर्ट

विभाग के अध्यक्ष और अन्य अधिकारियों का उल्लेख।

Lokmat Times

Deshmukh appointed AIB-ITE member

विभाग के अध्यक्ष और अन्य अधिकारियों का उल्लेख।

नामिबिया विद्यापीठ

डॉ. देशमुखोंका नियुक्ती

विभाग के अध्यक्ष और अन्य अधिकारियों का उल्लेख।

HAL Designer Bags Prestigious IETE Award. A Revolution in Digital Media.

तकनीकी युग में लगातार सीखने की जरूरत. डॉ. देशमुखोंका नियुक्ती.

इंजीनियरिंग के साथ नॉन इंजीनियरिंग कोर्स का जोड़ा जाना भी आवश्यक. डॉ. देशमुखोंका नियुक्ती.



The Institution of Electronics and Telecommunication Engineers (IETE)

Call for Nominations for IETE Awards-2021

The IETE Awards have been established to recognize excellent scientific and technological achievements in the scientific fields covered by the Institution. Most of these IETE Awards are presented at the Annual IETE Convention (AIC) of IETE.

THE CALL FOR NOMINATIONS IS NOW OPEN FOR THE YEAR 2021.

Nomination Submission Deadline for IETE Main Awards and IETE Corporate Awards: May 31, 2021.

IETE Main Awards under consideration are presented to the nominee(s) who has made major scientific contributions in the field(s) as per the specification of the award. These awards consist of a plaque /medal, or/and honorarium, or/and travel support to an IETE regional meeting, where a lecture is presented by the awardee.

IETE Corporate Awards under consideration are presented to Large Enterprises (LEs) and Micro/Small/Medium Enterprises (MSMEs) for recognizing performance excellence of the Corporate Sector (establishment /organization/service entrepreneur/industry). These awards carry citations and mementos.

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

IETE MAIN AWARDS- (in the fields as stated)

- **IETE-Ram Lal Wadhwa Award** - (Electronics and Telecommunication Engineering)
- **IETE-Hari Ramji Toshniwal Award**- (Development & production of Electronic Instruments and related Systems)
- **IETE-Bimal Bose Award**- (Power Electronics)
- **IETE-Lal C Verma Award**- (Standardization, Quality Control and Precision Measurements)
- **IETE-IRSI (83) Main Award & IETE - IRSI (83) Young Scientist Award**- (Radar Science & Technologies)
- **IETE-Flt Lt Tanmaya Singh Dandass Memorial Award**- (Avionics)
- **IETE-Prof K Sreenivasan Memorial Award**- (Teaching Electronics and Telecommunication Engineering)
- **IETE-Prof SVC Aiya Memorial Award** – (Guidance in Electronics and Telecommunication Research work)
- **IETE-Prof S N Mitra Memorial Award** - (Radio Broadcast Science and Technology)
- **IETE-Bapuseetharam Award (Biennial)**- (R&D and / or production of Electronic Components)
- **IETE- B V Baliga Memorial**- (Electronics and Telecommunication with emphasis on R&D and Industrial Development)
- **IETE- N V Gadadhar Memorial Award**- (Electronics and Telecommunication Engineering with emphasis on Mobile Radio Communication)
- **IETE- B R Batra Memorial Award** - (for selfless service to the cause of the IETE)
- **IETE- R S Khandpur Award**- (Medical Instrumentation)
- **IETE-Brig M L Anand Award**- (Applications of Networking and Internet with its usage in everyday life & commerce)
- **IETE-Biman Behari Sen Memorial Award**- (emerging areas of Electronics and Telecommunications with emphasis on R&D and Industrial Development)
- **IETE- Life Time Achievement Award**- (Electronics, Telecommunication & allied fields)
- **IETE- Smt Manorama Rathore Memorial Award** - (Electronics and / or Communication)
- **IETE- Smt Ranjana Pal Memorial Award**- (RF Communications, Electromagnetic, Antennas, Microwaves Circuits, Devices etc)
- **IETE- Smt Triveni Devi Gupta Memorial Award**- (Electronics, Telecommunications, Medical Electronics, Broadcasting, IT, ICT, E-Governance, Computer Technology, RF, e-Education, Electrical Technology).
- **IETE- Technomedia Award for Young Women in Engineering**- (Electronics, Telecommunication, Computer Science and Information Technology Engineering)
- **IETE-Shri Devi Singh Tyagi Memorial Award**- (Avionics and Defence Electronics)
- **IETE-Shri P P Malhotra Memorial Award**- (Electronics Industry /Academia) **only for IETE Organizational Members**
- **IETE-Dr Sudhakar Rao Award**- (Advanced Antenna System for Space, Air or Ground Communications) - (New Award instituted from this year)

IETE CORPORATE AWARDS

In the categories of Large Enterprises (LEs), and Micro/Small/Medium Enterprises (MSMEs) in each of the following areas:

- Electronic Components
- Computer and Telecommunication Systems
- Development of Software
- Electronic Instruments and Instrumentation

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Printer and Publisher : Lt Col Dipankar Sen (Retd) on behalf of Governing Council of the Institution of Electronics and Telecommunication Engineers (IETE), Published at 2, Institutional Area, Lodi Road, New Delhi-110 003 (India) and Printed at **Dolphin Printo-Graphics**, 467-483/8, Oberoi Compound, Dilshad Garden Industrial Area, New Delhi-110 095 (India), Editor : **Mrs Sandeep Kaur Mangat** copyright©2019 by the IETE.

Printing Cost per Copy: ₹ 4/-