



# IETE NEWS LETTER

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## From President's Desk



**Dear Corporate & Student Members and Associates**

**Greetings. I wish You and Your family a Happy and Prosperous New Year 2023. I also wish you all a happy Sankranti, Pongal, Gudi Padwa, Lohri, and Basant Panchami.**

I express my sincere gratitude for the Governing Council Members for electing me as IETE President for the year 2022-23, and I was sworn in at the Annual IETE Convention (AIC) held in Hyderabad on 25<sup>th</sup> Sep 2022, in the august presence of Dr G Satish Reddy, Scientific Advisor to Raksha Mantri, Govt of India & Dr T Hanuman Chowdary, Past President & Distinguished Fellow of IETE.

At AIC, Hyderabad on 25<sup>th</sup> Sept 2022, "Bhabha Memorial Lecture" was delivered by Dr B Yegnanarayana, INSA Honorary Scientist, IIIT Hyderabad and the Ram Lal Wadhwa Award Lecture by Dr Arun Kumar from IIT Delhi. I thank the experts for the excellent presentations. IETE Awardees 2022 are also presenting talks and presentations in their respective awarded areas at various IETE Centers.

At IETE HQs, 69<sup>th</sup> IETE Foundation Day was celebrated with overwhelming response from attendees on 2<sup>nd</sup> Nov 2022, on the theme National Education Policy 'NEP 2020: A Paradigm Shift in Skill Based Higher Education: Challenges and Opportunities'. The Chief Guest was Prof K K Aggarwal, Chairman, National Board of Accreditation. The Vice Chancellor of the National Institute of Educational Planning and Administration, Prof NV Varghese, also attended. I congratulate all the Chairpersons of IETE Centers and their team, across the country and abroad for commemorating 69<sup>th</sup> IETE Foundation Day in a befitting manner.

On 14<sup>th</sup> Nov 2022, the Gulbarga Sub-Centre was upgraded to a Centre (Kalaburagi). A Zonal Seminar along with an International conference on Functional Glasses (NCFG-2022) was organized along with 69<sup>th</sup> Foundation Day of IETE.

IETE Kalaburagi Centre associated with an organization for an International Conference at Sharanbasva University on 22 Nov 2022, on "Multidisciplinary Research (ICMR2022)", in the auspicious presence of Poojya Matoshree Dr Dhakshayini Appa, presided over by Prof (Dr) Santishree Dhulipadi Pandit, Vice Chancellor, JNU, New Delhi; Dr Niranjana V Nisty, Vice Chancellor, Sharanbasva University and myself. On this occasion, IETE Student Forum (ISF), Sharanbasva University was also inaugurated in the august presence of all the dignitaries.

I am happy to inform that "National Institute of Electronics & Information Technology (NIELIT) signed MoU during Sept 2022 for collaboration in the areas of skill development. NIELIT took IETE HQ building at Karkardooma on lease with effect from 15<sup>th</sup> Dec 2022 to explore and expand their operations.

IEEE MTT-S and IEEE AP-S International Conference (MAPCON-2022), was held at Bangalore between 13-15 Dec'22. President IEEE, Prof Saifur Rehman and President IEEE MTT Society, Prof R Henderson visited the IETE Publications stall. We express our gratitude and deep appreciation for Prof Shiban K Koul, Editor-in-Chief, IETE Journal of Research who was instrumental for providing a platform for IETE Publications exposure and membership drive. I also place on records the excellent services provided by Mrs Sandeep Kaur Mangat, AS (Publications), and Shri Sanjay Setia, PRO, President of IETE during the three-day exhibition of the IETE publications stall at MAPCON-2022. On the concluding day, as the keynote speaker, I gave a presentation on IETE activities. Shri Sunil, Addl. DG, Prasar Bharati & Hony Treasurer, IETE; Prof (Dr) K Jaya Sankar, Vice President & Chairman, Publications Committee; and Dr Baswaraj Gadgay, Vice President & Co-Chair, Publications Committee, highlighted more on the IETE Journals, their current state, and their future expansion plans.

The Governing Council Meeting in physical mode was held at Chennai from 24 to 25 Dec'22. Prof Shiban K Koul, EIC, presented to the GC members the ambitious journey of IETE Journal of Research and the scope of IETE-IEEE MTT-S MOU for joint publications. Shri Anurag Shah, Executive Director of NIELIT, outlined to the GC members the proposal for cooperative collaboration between IETE and NIELIT about the online conduct of examinations, the conduct of skill development programmes, etc.



## CONTENTS

From President's Desk	1
Report on 65 <sup>th</sup> AIC-2022	2
69 <sup>th</sup> IETE Foundation Day	6
IETE Gulbarga Sub Centre Upgraded To Centre	8
IETE New Awards Announced	8
IETE Zonal Seminars	9-11
News from IETE Centres/ Sub-Centres	12-24
Awards & Achievements	25
IETE Students' Forum (ISFs) Activities	25-33
New IETE Members Enrolled/ Upgraded during August 2022 to December 2022	35
IETE Women Achievers	35
IETE Exhibition at MAPCON -2022	36



IETE HQs, New Delhi



**IETE Thrust Areas- 2022-23: During the Year of Aazadi Ka Amrit Mahotsav:**

In line with the objectives set by Hon'ble Prime Minister of India: To promote & encourage Make in India programme and to develop Atma Nirbhar Bharat, IETE is continuously interacting with Industry Professionals, Educational Institutions as a catalyst Agency to develop start-ups in the areas of Artificial Intelligence, Machine Learning and Data Analytics. To promote and to aide in the implementation of the National Education Policy-2020, we are conducting seminars, workshops and conferences across the country.

Impact factors for our publications have been steadily rising. We are looking into ways in which the EIC, along with the assistance of two Deputy EICs and the Editorial Board, can facilitate timely reviews. To clear backlog of pending articles, we are bringing voluminous issues of IETE Journal of Research.

IETE Membership is fast growing. I heartily welcome new organizational members, corporate members, ISF student members. I express my deep appreciation and gratitude to our Corporate members, Student members, Governing Council members, Centre Chairpersons, and their team, who are contributing for the activity growth of the Institution, IETE.

**With Best Wishes**



**Prof V Gunasekhar Reddy**

President, IETE

Deputy Inspector General of Police (Rtd)

## Report of 65<sup>th</sup> Annual IETE Convention-2022 held on "Frontier Information & Communication Technologies for Atmanirbhar Bharat"

The AIC is a flagship event of the Institution which offers a unique platform to the IETE fraternity and the wider community of engineers to come together and deliberate on issues of common concern, providing opportunity for industry-academia linkages. Prominent among the dignitaries who graced the **65<sup>th</sup> Annual IETE Convention-2022** were **Dr G Sateesh Reddy**, Scientific Advisor to Rakshmantri, as the Chief Guest; Padmashree Awardee **Shri TH Chowdary**, IETE Distinguished Fellow & Past President and **Shri K Srinivas**, GM & Head, BEL Hyderabad, as Guests of Honour; **Prof V Gunasekhar Reddy**, President of IETE; **Wg Cdr P Prabhakar**, Past President of IETE; **DrMH Kori**, Vice-President, IETE; **Prof (Dr) K Jaya Sankar**, South Zone Mentor, IETE; **Shri Sunil**, ADG, Prasar Bharati, Hony Treasurer, IETE; **Dr K Seetha Ram Babu**, GC Member; **Er Nuli Namassivaya**, Chairman, Hyderabad Centre and **Gp Capt Sonpal Singh**, IETE Secy General.

**Er Nuli Namassivaya**, Chairman of the Hyderabad Centre, greeted the guests and explained that the Centre received a large number of responses to their Call for Papers, and that only papers that had passed a plagiarism test had been chosen for presentation during the technical sessions.

ICT engineers are developing new services and applications using 5G, IOT, AI/ML, AR/VR to leapfrog economic developments in key sectors like health, education, infrastructure, finance, agriculture, manufacturing, and perhaps most importantly governance, as mentioned by **Dr M H Kori** Vice President and TPPC Chairman, in his address.

In his parting address, **Prof (Wg Cdr) P Prabhakar** expressed his contentment with the many high-quality events spanning cutting-edge technologies that were hosted at HQ and Centres, as well as the value-added contributions made by ISFs and PACs. He thanked the Governing Council, the Centre Chairs, and the ExeCom for their roles in IETE's success.

The event's Guest of Honour, the nonagenarian and Padma Sree recipient **Dr T H Chowdary**, said that the government should not sell or auction

off the electromagnetic spectrum because it is a natural resource just like air and water. It should be made free so that the poor can benefit from a significant drop in the price of communications. He argued that IETE should prevail upon the government to make the appropriate policy adjustments in this area. He pondered if the deployment of artificial intelligence and robots would preserve the qualities of tolerance and universal brotherhood, or if they would only become exclusive self-righteous beings.

**Shri K Srinivas**, GM & Head, BEL Hyderabad, was also the Gest of Honour and he expressed confidence that the AIC will provide a peek of developing communication technologies, sparking fresh thinking among young and future Indians for a sustainable future in the current socioeconomic environment.

The dignitaries then unveiled a large logo for the ITEC Hyderabad Golden Jubilee festivities, signifying the beginning of the IETE Hyderabad Centre's 50<sup>th</sup> year.

"The Prime Minister's call for Atmanirbhar Bharat has galvanised the entire manufacturing sector in the country, including in particular the Information and Communications technologies," said **Dr G Sateesh Reddy**, Scientific Advisor to Raksha Mantri, the Chief Guest at the two-day Convention, which was attended by a cross-section of IETE's corporate members, prominent businessmen, academics, and engineering scholars from around the nation. He remarked that until recently, even simple items such as routers, servers, and switches were imported; but, due to the PM's imaginative leadership, the situation has changed tremendously. The information and communication technologies are at the heart of this initiative, and IETE can play a prominent role in this regard due to its national presence of eminent engineers and scientists from various fields of specialisation. Additionally, he urged that the IETE's bylaws should be modified in order to perpetuate the outstanding work begun by a senior leadership.

The chief guest and other dignitaries unveiled the **65<sup>th</sup> AIC Souvenir** on

this occasion. The Souvenir included messages from the Prime Minister and other VIPs as well as paper abstracts. This year, two individuals were honoured with the **Lifetime Achievement Award**. **Prof (Dr) M Baswaraj** (DF-138567), founder Chairman of the IETE Gulbarga Sub-Centre, and **Dr Shyam Sunder Agrawal** (DF-060909), Director General, KIIT, Gurugram. At the same time, **Brig Vijay Kumar Panday** (Veteran) was presented with the prestigious **IETE Distinguished Fellowship**.

The **Best Centres Awards** were given to the **IETE Hyderabad Centre (first place)** and the **IETE Bangalore Centre (second place)**. The **IETE Nasik Sub-Centre** won the **top prize** in the Best Sub-Centres Awards, and the **IETE Gulbarga Sub-Centre** received the **second prize**.

This was followed by the release of the results of the Presidential Election for 2022-23 and the **installation of Prof (Dr) V Gunasekhar Reddy** as the next President of IETE.

**Prof (Dr) V Gunasekhar Reddy** in his address talked about how IETE has many different ways to keep up with the mind-boggling technical advances that academia and industry are making thanks to a good policy ecosystem. Information and communication technologies are at the heart of IETE's mission, and the group has 1.25 lakh members spread across 65 centres, sub-centres, ISFs, and PACs. IETE is moving forward with full confidence. He gave an overview of what was going to

happen in the coming year, such as putting more emphasis on the MoU with IEEE for mutual cooperation, helping start-ups in the area of data analytics, forming 11 subcommittees to focus on specific future goals of IETE through online discussions, setting up a digital university, advising scholars on how to write good manuscripts, and getting rid of the backlog of accepted articles by December 2023 by taking some unusual steps.

Mementos were presented to Chief Guest and other dignitaries in the inaugural session, which ended with vote of thanks by **Gp Capt Sonpal Singh** (veteran), Secretary General IETE.

After a short break, **Prof (Dr) B Yegnanarayana**, INSA Honorary Scientist, IIIT Hyderabad delivered **54<sup>th</sup> Bhabha Memorial Lecture** on '**Evolution of AI & ML and Its Impact on Education**'. He explained that Artificial Intelligence (AI) began as a science, *i.e.*, understanding human behaviour and showing this understanding through experiments or simulations on a machine. AI evolved into engineering over time, *i.e.*, the design and development of a system that highlights a particular facet of our understanding of human intelligence. Currently, systems created utilising a set of tools known as machine learning (ML) are considered artificial intelligence (AI) systems. In this presentation, he examined a few features of human intelligence and learning in order to demonstrate their lack in current AI theory. He gave diverse perspectives on the

relationship between AI and ML by tracing the evolution of AI over the past seven decades. The proliferation of programs related to AI & ML in the educational sector shows the impact of this field on the current learners.

**Prof Arun Kumar**, Centre for Applied Research in Electronics, IIT Delhi, delivered the **45<sup>th</sup> Ram Lal Wadhwa Award Lecture** on topic, '**Advances in Acoustic Vector Sensors and VLF Communication Modem**', following lunch. He elucidated how underwater medium presents some of the greatest challenges in the development of technologies for both exploration and defense purposes. He presented findings of his R&D work done during the last 10 years in the fields of underwater electronics

and communication for ocean applications. These included the design of algorithms for high-data rate at very low frequency (VLF) modem for long range communication from land to submerged submarines, and the development of acoustic vector sensors for detection and localization of radiating acoustic sources. He focused on the development of acoustic vector sensors for passive acoustic monitoring applications in air and water and described key research contributions leading to the development of VLF

modem architecture with high data. The notable technological challenge addressed in this work to achieve the higher data rates in presence of atmospheric radio noise that corrupts VLF signals was presented.

The Convention was divided into four technical sessions over two days. The **Technical session I** was titled "Artificial Intelligence and Machine Learning" and was headed by **Dr Ajay Thakare** and **Dr Venkateshwarlu**. This session featured the presentation of five papers, which were: **AI Based Drill Companion** by Lt Col Anand Waikar; **Leveraging Potential of Cloud Assisted IoT through Adaptive Machine Learning** by Capt Md Ahmed Shafi; **Document Forensics and Implementing ML Tools in Real Time Detection of Document Fraud** by Capt Vishul Saini & Capt Kaushal Joshi; **Comparative Analysis of Various Machine Learning Models for the Detection Breast Cancer** by RV Sreehari, from KSRM College, Kapada and **Artificial Intelligence & Machine Learning Revolution- Exploring Possibilities** by Prof G Radha Krishna from HAL Balanagar, Hyderabad.

The topic of the **Technical Session II** was "Signal Processing," and it was chaired by Brig Shivender Kumar, EME and by Dr Nukala Srinivasa Rao. There were four papers presented during this session. **Study on Concurrent Characteristics of Fetal ECG** by Kakkula Shiva Prasad; **Evolution of Figure of Merit of Indian Remote Sensing**



**Prof V Gunasekhar Reddy being installed as 45<sup>th</sup> President of IETE by the Chief Guest, Dr G Sateesh Reddy, Scientific Advisor to Rakshmantri**

**Ground Station** by Dr A N Satyanarayana, Group Head, *et al* by NRSC Hyderabad; **3D perception and Localisation for Autonomous Outdoor Navigation** by Ajay Tomar, *et al*, BEL, Bangalore and **Intricacies of Data Acquisition and Processing Systems of Atmospheric Radars** by Dr P Sudhakar and G Aparna.

The awards ceremony session after the lunch was graced by the presence of nearly all the awardees. President **Prof (Dr) V Gunasekhar Reddy, & Prof (Wg Cdr) P Prabhakar, (Retd) Past President IETE** presented awards. Souvenir records list of all awardees for the year 2022.

On the second day, three papers were presented by the participants and subsequently valedictory session was held. Valedictory session was presided by Dr K P Srinivasa Rao, Dr V Gunasekhar Reddy, Wg Cdr P Prabhakar, Dr M H Kori, and Dr K Seetaram Babu. **Dr K P Srinivasa Rao**, Chairman, Matrusri Education Society was the Chief Guest of the day. In his address, he discussed recent technological developments and showed support for all research activities under ISF/IETE at Matrusri/MVSREC in the near future in an effort to inspire student members to develop their talents.

**Dr K Seetha Rambabu**, member of the Governing Council and board member of MVSREC, discussed the most recent technological advances and their advancement in the context of AIC topics. He indicated that in future he will work to increase the participation of industry and educational institutions in the skill development of students.

On this occasion, **Dr Nukala Srinivasa Rao**, the Hony Treasurer of the IETE Hyderabad Centre, participated as a panelist in a discussion about the remote surgery features of AIML, and a few IETE experts also discussed upcoming activities. **Dr Niranjan Prasad** underlined the importance of holding additional short-term courses to improve the skills of the industrial workforce.

**Shri Ashwani Kumar Sangamker**, Honorary Secretary of IETE in Hyderabad, made the thanksgiving address. He thanked all the attendees and IETE members for their unwavering support in ensuring the success of AIC-2022. He reported that the Defense Establishments, including the Armed forces from Hyderabad, have submitted the most papers this time. On the day of the convention, September 25<sup>th</sup>, the Army team has been assigned outstation duties. The team included the authors of articles from the army establishment. Due to the nature of their responsibilities, they were unable to attend the session in person to present their paper.

The Souvenir hosted on [www.iete.org](http://www.iete.org) and the IETE Hyderabad website contains an overview of the presented papers.

The **preconference tutorials** were organized on 23 Sep 2022 at following colleges: In cooperation with IETE Hyderabad Centre, **ISF at Stanley College of Engineering & Technology for Women (Autonomous), Hyderabad**, hosted a one-day pre-conference tutorial on **“Innovations and Future Solutions in the Field of AI & ML.”** Smt T Prasanna, Asst Prof, ECE, opened the meeting with a welcome address. Smt CV Keerthi Latha, Asst Prof EVE and the session’s coordinator, gave the opening remarks for the session. The goal of the conference was to examine how students may implement design thinking in the field of AI/ML in order to transmit the principles in technical education curriculum, transfer information to students, and equip them to meet industry standards. The conference featured three distinct sessions. In Session I, CSE Department

Head, **Prof YVSS Pragati** introduced Artificial Intelligence. **Dr B Srinivasu**, head of IT, discussed the application of AI and ML during the Session II. **Dr Satya Prasad Lanka** presented the concepts and practical applications of AI/ML during Session III in the afternoon.

**IETE ISF Pallavi Engineering College, Hyderabad**, held a one-day pre-conference seminar on **“AI Competencies for Data Science”**. **Shri Sai Satish**, Founder & CEO of Indian Servers, was the distinguished speaker. 210 students and 8 faculty IETE members from ECE and EEE departments attended. Principal **Dr M B Raju, Dr T Sravanti**, Head of ECE, ISF Coordinator, **Mr MD Mujeebullah**, and IETE students were also present. Shri Sai Satish is an ethical hacker and cyber security expert. His lectures at IITs, Central Universities, IIMs, 350+ Engineering institutes in India have helped lakhs of students and professionals. Students engaged actively throughout the session. Mr Sai Satish introduced Artificial intelligence (AI), a general term for computer programming and development meant to train machines to execute tasks as well as, or better than, humans. Later, he discussed Machine learning, an AI application in which a machine is given programming and massive amounts of data to learn its own patterns, rather than the patterns and restrictions defined by a human programmer, and improve from experience. AI in medicine has exploded in recent years because of breakthroughs in processing power, hardware, and software. In the afternoon session, he discussed businesses and institutions that store most of their data in Microsoft Excel Sheets and the minimal Business Intelligence tools capable of analysing and processing this data. He also discussed how less data made processing and managing data easier, but as time passed, daily data production increased. Asst Prof of ECE Dept. MD Mujeebullah gave the vote of thanks and Principal Dr M B Raju & Dr T Sravanti, HoD, ECE Department presented a small token of appreciation to guests.

**FPGA-based Architectures for IOT sensors & Applications** was a pre-conference tutorial at **ISF Matrusri Engineering College, Hyderabad**. **Dr Nukala Srinivasa Rao**-Professor & HOD ECE-planned and coordinated this tutorial. **Dr N S Murthy**, Dean-Professor ECE (Retd) from NIT Warangal, explained FPGA trends. He also discussed IoT advancements and applications. Shri Om Srivatsav, an IoT microcontroller expert, taught participants to construct IoT solutions. He explained biological sensor requirements for modern medical applications. Dr Nukala Srinivasa Rao gave vote of thanks.

**ISF at MVSR Engineering College, Hyderabad** hosted a pre-conference tutorial on **“Real World Applications of AI/ ML”**. This programme was organised by **Sri Nuli Namassivaya**, ECE Associate Professor. **Dr Rajesh Kulakarni, Dr K Venugopal Rao, and Dr AV Krishnaprasad** spoke about AI/ML applications. The speakers educated participants about AI/ML’s applications and design, as well as how the market depends on AI/ML.

The **“Smart City Using Smart Sensors”** tutorial was put on by ISF at the **Ellenki College of Engineering and Technology in Hyderabad**. Dr. Shankar, Scientist “D” at DLRL, DRDO, in Hyderabad, talked about the ideas behind smart cities. He told the students how the Internet of Things (IOT) and smart sensors can help the city make it easier for people to get around and address health problems. Also shed some light on the problems that network sensors in smart cities face and how to fix them.



# MEMORABLE MOMENTS OF AIC 2022

## 69<sup>th</sup> IETE Foundation Day celebrated at IETE HQs, New Delhi

IETE HQs held its **69<sup>th</sup> Foundation Day** by holding in-depth discussions on the theme **“NEP 2020: A Paradigm Shift in Skill-Based Higher Education: Challenges and Opportunities”** on 2<sup>nd</sup> November 2022, at Delton Hall in New Delhi. Among the dignitaries who attended the event were: **Dr K K Aggarwal**, Chairman National Board of Accreditation (NBA), as the chief guest; **Prof (Dr) V Gunasekhar Reddy**, President IETE; **Shri Sunil**, ADG, Prasar Bharati, Honorary Treasurer IETE; **Prof N V Varghese**, Vice Chancellor, National Institute of Educational Planning and Administration (NIEPA); **Dr M M Tripathi**, Director General, National Institute of Electronics & Information Technology (NIELIT) as Guests of Honour; **Prof (Dr) Geeta Bhatt**, Director Non Collegiate Women’s Education Board, Delhi University; **Prof (Dr) K Ratnabali**, Dean Academic Affairs, Faculty of Law, Delhi University as invited speakers; **Prof (Dr) K Jayasankar**, Vice-President; **Dr D S Bormane**, Chairman TPPC and **Gp Capt Sonpal Singh (Retd)**, Secretary General IETE.

Chairman of the TPPC, **Dr D S Bormane**, said at the time that the New Education Policy aims to change the lives of students by bringing creativity, learning, experiments, visualisation, and art into the education sector, from primary to doctoral level. As we understand them, universities provide teaching in a large array of disciplines. However, many Indian higher education institutions have become overly specialised in recent decades. While a number of these schools have received international praise for their exceptional educational quality and learning outcomes, many have become discipline-specific. The necessity to establish multidisciplinary education in Indian institutions and colleges has increased. In addition, we must ensure that students can move across universities and bridge disciplinary boundaries. Moreover, they should be able to gain credits through a number of delivery modalities, such as physical, online, and hybrid formats, leading to the issuance of credentials. These challenges are addressed by the NEP-2020. In practice, however, there are several difficulties to accomplishing these great objectives. Our higher education system is diverse, and the degrees awarded vary in nomenclature, content, and length. Establishing equivalence and promoting student mobility must therefore be addressed. In addition, NEP 2020 recommends the creation of the National Higher Education Qualifications Framework (NHEQF) to address inconsistencies between institutions and programmes. These improvements will control policy formulation. NHEQF must, for instance, thoroughly address concerns regarding multidisciplinary education, multiple entries and exit, the introduction of vocational education, and the adaptation of online education. In a very interesting way, the NHEQF awards certificates based on “learning outcomes.” Certificates, diplomas, and degrees are the three forms of credentials granted to students. For each, the NHEQF describes the expected learner knowledge. The NHEQF outlines the entry requirements for each certification, the conditions for lateral entry, and the assessment of prior learning outcomes in order to enable multi-entry vertical and horizontal mobility.

**Prof (Dr) V Gunasekhar Reddy**, the 45<sup>th</sup> President of IETE, discussed how NEP 2020 strives to make every parent’s dream come true by providing children with the finest possible education so they can obtain decent employment and have a prosperous future. Multiple entry and departure points are planned for NEP 2020, and online education enables urban and rural students to profit from India’s digital development. After the epidemic, he stated that IETE, which has 1.25 lakh members in 64 centres, sub-centres, ISFs, and PACs, was moving forward at full speed. He lauded the efforts of the Gulbarga (Kalaburagi) Centre, which enrolled more than 450 members in a short span. Renewal of MoU with IEEE for mutual cooperation; nurturing Start-ups in the area of Data Analytics; and establishment of 11 subcommittees to focus on specific future goals of IETE through online debates were also highlighted in his remarks. IETE’s efforts to eliminate the backlog of accepted articles by December 2023, getting Digital University up and operating and helping academics write high-quality publications, were also highlighted.

**Dr M M Tripathi**, Director General, National Institute of Electronics & Information Technology (NIELIT), stated that India’s forthcoming economic

growth will demand a diverse workforce. Given the significance of industry engagement in curriculum creation, it is suggested that students become proficient in industry-related areas during the seventh semester. While tens of thousands of college graduates seek jobs, the global competitiveness of industry needs the development of new competencies. The universalization of higher education under NEP 2020, he said, would benefit a larger force of rural youths who do not now contribute to India’s economic growth. Since it is expected that 32% of jobs will be in the ICT industry, IETE has a big role, and NIELIT, with its experience in AI and ML, can engage successfully with IETE.

In his insightful presentation, **Prof NV Varghese**, Vice Chancellor of the National Institute of Educational Planning and Administration (NIEPA), explored the historical backdrop of three educational policies issued in 1968, 1986, and 2020. In contrast to the first strategy, which prioritised higher education, the second strategy separated degrees from jobs. A multidisciplinary approach was emphasised in the most current policy, which comprised primary, secondary, and university education. He applauded UGC’s initiatives to increase higher education accessibility. He claimed that institutions are expanding the bounds of knowledge and introducing intellectual abilities, but cautioned that skill-development as envisioned by NEP 2020 is not a replacement for “knowledge generation.” As a result of the 1991 economic liberalisation, the rate of job growth trailed behind the rate of economic expansion to the point that we now experience the phenomena known as “job-loss growth.” As the number of high-skilled employment increases, the number of low-skilled jobs decreases, creating a social dilemma. Higher education, in his view, should cultivate students with “trainability” to face the difficulties presented by the rapid development of technology.

**Prof (Dr) Geeta Bhatt**, Director of the Non-Collegiate Women’s Education Board at Delhi University, claimed that NEP 2020 brought a breath of fresh air and prompted heated debates because it touches every household. It attempted to achieve various milestones, yet difficulties exist. The fact that engineering currently has the biggest number of PhD students implies the existence of fault lines. In fact, a liberalised education ecosystem should stimulate innovation in order to cultivate the ideas needed to manage the challenges brought on by the rapid development of technology. The opportunity for lateral admission for engineering diploma students would be applicable to other fields. This will aid disadvantaged social groups (SEDGs). Similarly, in the year 2000, the United States decided to reevaluate its education policy, publishing a lengthy report concluding that authorities needed to remodel the ecosystem or their economy would become less globally competitive than China’s. She argued vehemently for teaching in regional languages in order to reveal the country’s latent brilliance, despite the wealth of talent in the country. Moreover, in order to contribute to the national effort, every one of us must keep up with advances in the applied sciences: in actuality, it is vital to adopt a “Life-Long Learning” mentality. Consequently, everyone must continually be willing to learn and develop their skills. When both parties see the value-creation potential of their relationship, the divide between academics and industry may be closed, she argued with examples. As a connection between the two, IETE can perform a crucial role.

**Prof (Dr) K Ratnabali**, Dean of Academic Affairs of the Faculty of Law at Delhi University, remarked that NEP 2020 is an ambitious programme that aims to transition students from “rote learning” to “conceptual learning.” This is not a simple procedure to do. For example, what form of resilience emerges when a parent enrolls a child in a nursery school in order to guarantee future employment? She recalled the ancient Gurukul system, which utilised a holistic approach to development. Instead of the traditional competitive mindset prevalent in schools today, the new technique aims to foster teamwork among pupils. The NEP 2020 intends to teach persons (i) general skills, (ii) technical skills, and (iii) managerial/organizational abilities, all of which are essential for healthy development. In the same way, providing students with multiple exit routes increases their employment opportunities. NEP 2020 establishes a hierarchy of levels for degrees in higher



education, from level 5 to level 10. Levels 1–4 match attending school. The learning outcomes for each qualification in higher education are codified as rules. Level 5 is a certificate for undergraduates, Level 6 is a diploma for undergraduates, and so on until Level 10 is a doctorate.

Chief Guest, the erudite professor, **Dr K K Aggarwal**, Chairman of the National Board of Accreditation (NBA), who has the rare distinction of becoming a professor at the age of 27 years, stated that NEP 2020 is a very ambitious strategy that encompasses all levels of education, from primary to doctoral. Due to astounding technical advancements, social engineers must have a broad perspective. He stated “The NEP is advantageous to us since it emphasises a multidisciplinary approach that will aid in the skill acquisition of students. But how can one improve? The proper response to this enquiry given was Higher-Order Thinking Skills (HOTS) - a concept that differentiates critical thinking skills from lower-order learning outcomes, such as memory. This type of innovation-driven ecosystem requires early student engagement. John Hetrick invented airbags after receiving the idea from his 5-year-old son. To assuage worries raised in NEP over language, he used a famous psychologist’s quote, “One can be creative if one learns the language of dreams.” He claimed that all languages may survive, but that studying one’s native tongue has long-lasting benefits. This is a fundamental aspect of the new policy. India is on track to surpass the United States in “digital” development. Here, the NEP advises employing AI, often known as artificial intelligence. How can a student, for example, customise his degree to his innate abilities? With this type of inventiveness, India’s inevitable march toward digitalization will be able to realise its full potential. Educators, who are often somewhat conventional, must be highly adaptive. In order to attend the forthcoming Digital University, individuals will be expected to alter their views, which is a very difficult undertaking in the real world. To be skilled, it is not enough to acquire plumbing and welding techniques.

As technology progresses, high-skilled jobs expand while low-skilled jobs decline. Therefore, “rapid adaptation” is required now, and this is the focus of the NEP. Former President Dr. Abdul J Kalam once questioned, “How can uninformed youth build guided missiles?” This illustrates that today’s youth require practical guidance more than ever. We have everything necessary to make the NEP a success by assembling varied groupings that work as intelligent machines. We seek a massive army of ethically decent, multitiered individuals. If its youth aspire to excellence, India will become Vishwaguru.”

Among the distinguished senior IETE members honoured on this occasion were: **Lt Gen SL Mehrotra** (F 008748) from Delhi; **Wg Cdr T R Dua** (F 062537) from Delhi; **Dr Shamim Ahmad** (F 101379) from Faridabad; **Prof Ajay Kumar Tandon** (F097821) from Delhi; **Shri H K Soni** (F013928) from Delhi; **Shri V N Prasad** (F 106116) from Delhi; **Shri G P Singh** (F044312) from Noida; **Col S K Jain** (F 042159) from Delhi; **Shri R N Bhardwaj** (F026648) from Delhi; **Lt Col D C Tiwari** (F 116035) from Noida; **Shri Vidhya Prakash Gupta** (F 042034) from Delhi; **Col S C Narang** (F120856) from Delhi; **Col M K Khera** (F 084641) from Noida, but couldn’t join the event; **Col Mukesh Sareen** (F116395) from Noida; and **Col PK Sharma** (F112140) from Noida. **Maj I M Kapoor (Retd)** (F141737), a former member of the Governing Council who could not be honoured previously, was also awarded with a plaque on this occasion.

Furthermore, IETE acknowledged its long-tenured HQS employees who have served for 25 years or longer. **Shri P K Saluja**, **Shri A K Pathak**, **Shri Chetan Anand**, **Ms. Vijay Lakshmi**, **Shri Gajendra Singh**, **Shri M P Kesarwani**, **Shri Bharat Bhushan**, **Shri Pramod Kumar**, and **Mrs Sandeep Kaur Mangat** were on the list. The occasion concluded with a vote of thanks from **Gp Capt Son Pal Singh (Retd)**, Secretary General of the IETE, and a magnificent dinner that was relished by all guests.

## IETE GULBARGA SUB CENTRE UPGRADED TO IETE KALABURAGI CENTRE

**Dr V Gunashekar Reddy**, President, IETE was Chief Guest at the **up-gradation ceremony of the IETE Gulbarga Sub-Centre to the Kalaburagi Centre**, which was clubbed along with the 69<sup>th</sup> Foundation Day celebration of IETE on 14<sup>th</sup> November 2022. Guests of Honour were: **Prof P Prabhakar** (Veteran), Past President; **Prof (Dr) JW Bakal**, Past President; **Prof (Dr) M Baswaraj**, former Vice-President; **Dr Baswaraj Gadgay**, Zonal Mentor (South) & Vice-President; **Prof (Dr) K Jayasankar**, Vice-President; **Dr D S Bormane**, Vice-President and **Shri Sunil**, ADG, Prasar Bharat (Global Outreach) & Hony Treasurer IETE; **Gp Capt Sonpal Singh (Veteran)** Secretary General IETE. **Er Nuli Namassivaya**, Chairman, IETE Hyderabad Centre, **Dr R R Deshmukh**, Zonal Mentor (West), Chairman, IETE Aurangabad; **Dr Shubhangi DC** Immdt past Chairperson, IETE, Gulbarga Sub-Centre & Nominated GC Member graced the occasion. The welcome address was given by Dr Shubhangi DC.

Felicitations performed to the families of Dr V Gunashekar Reddy, Prof (Dr) K Jayasankar and Dr M Baswaraj. Dr Praveen Reddy, Member, Kalaburagi Centre, presented vote of thanks.



## IETE ANNOUNCES TWO NEW AWARDS THIS YEAR

### IETE- YASODAMMA AND SARASAVANI AWARD



Smt Yasodamma

**Prof (Dr) V Gunasekhar Reddy**, President of IETE, has established this new award by donating Rs 3 lakhs to IETE to honour his late mother, Smt Vanniyakula Yasodamma, and his wife, Smt Sarasvani Reddy. The award will be given to a person for **significant achievements/ contributions in the fields of Wireless Sensor Networks & UAVs**. The award consists of Rs 5,000 cash prize, a citation, and a medal. The recipient will be invited to present a lecture based on the work that led to the award at an appropriate event at one of the IETE Centres nearest to the location of the awardee.



Smt Sarasvani



## IETE - SURUCHI-SURESH DUTTA ROY MEMORIAL AWARD



**Prof S C Dutta Roy, Distinguished Fellow IETE**, has established this new award in memory of his late parents, Smt Suruchi and Shri Suresh Dutta Roy, by donating Rs 3 lakhs to IETE. This award will be given to the **best researcher in Circuits and Systems over the past 10 years**. The award will consist of a medal and citation and will be given every two years. The recipient will be invited to deliver a lecture based on the work that led to the award at an event held at one of the IETE Centres closest to the awardee's location.

### 28<sup>th</sup> Sir JC Bose Memorial Lecture hosted by IETE Kolkata Centre

The **28<sup>th</sup> Acharya Jagdish Chandra Bose Memorial Lecture** was held at the IETE, Kolkata Centre on Nov 30, 2022. **Prof (Dr) Angsuman Sarkar**, Professor, HoD of Electronics and Communication Engineering at Kalyani Government Engineering College, gave the keynote speech on "Application of NV Center for Quantum Communication." He elucidated the topic quite well. **Prof (Dr) V Gunasekhar Reddy**, President of IETE, and **Prof (Dr) Angsuman Sarkar**, Professor and HoD, along with other dignitaries and members, were there. **Prof (Dr) V Gunasekhar Reddy**, President of IETE, was the event's chief guest. His talk provided his perspectives on the topic. More than 100 students and teachers from several colleges and universities participated in the program. **Dr Aniruddha Nag**, Secretary, IETE Kolkata Centre, gave a closing speech to the students.



## IETE Zonal Seminars

### North Zone : Knowledge Areas of Cyber Security and Way Forward to Bridging the Gap in Defensive and Offensive Cyberspace and Skilled Human Resources in India

IETE Noida Centre organised Zonal Seminar (North Zone) on the theme "Knowledge Areas of Cyber security and Way Forward to Bridging the gap in Defensive and Offensive Cyberspace and Skilled Human Resources" with Galgotias College of Engineering & Technology, Greater Noida on 2nd Sept 2022. Ramognee Technologies, Pro Shield Security Solutions, and Soni Travel Company were the Seminar's sponsors. As the digitally connected world has expanded at an unprecedented rate, so too has the scale of vulnerabilities and the frequency of attacks that we face, and the seminar's goal was to sensitise the audience that the continuously increasing threat brings into sharper focus the nexus of these issues, particularly for engineering students and faculty.

The seminar's Chief Guest and keynote speaker was **Lt Gen (Dr) Rajesh Pant, PVSM, AVSM, VSM (Retd)**, an internationally renowned Cyber security mentor who currently holds the prestigious position of National Cyber Security Coordinator at the National Security Council Secretariat of India.

The seminar proceeded with a welcome address by **Col (Dr) Bipin Pandey**, Chairman of the Noida Centre, following the lighting of the lamp. **Dr Mohd Asim Quadri**, Director of GCET, then delivered a welcome message. **Prof (Wg Cdr) P Prabhakar**, President of IETE, gave the address.

**General Pant**, the Chief Guest, delivered the keynote presentation. He discussed the intersection of National Security, Information Operations, and Global Space Governance in his comprehensive presentation on India's Cyberspace capabilities.

The seminar was divided into two technical sessions. First session was

graced by **Dr Nishakant Ojha**, Chief Strategy Officer BECIL, **Shri Anuj Agarwal**, Centre for Research on Cyber Crime & Cyber Law and **Maj Gen Amarjit Singh (Retd)**, Strategic Projects and Info Security, Persistent Systems. **Dr Nishakant Ojha** talked about the far-reaching consequences of cyberspace and the resilient infrastructure, policies and stringent security protocols that India needs to build to cover not just security forces but all aspects of the nation's governance, economy and welfare. **Shri Anuj Agarwal** focused on the legal and forensic aspects of Cyber Security. **Maj Gen Amarjit Singh** gave detailed presentation on Global perspective on Information Security Competency Frameworks and also discussed the knowledge skills, and competencies model and CyBOK as well as the Information System Security Certification Consortium (ISC2) Common Book of Knowledge (CBK) bringing into perspective the harmonization of the competency frameworks in the context of the Governance and Management of Information Security at an organization level.

The second session was graced by **Lt Gen RS Panwar, AVSM, SM, VSM (Retd)**, Expert Cyber Security; **Gp Capt M K Sharma**, Cyber Expert and Author; **Cdr Mukesh Saini**, Cyber Security Expert and **Shri Mohit Rampal**, CEO Ramognee Technologies. In his online address, **Lt Gen R S Panwar** covered a vast array of offensive cyberspace challenges. He discussed cyberspace as a war fighting domain, cyberspace sovereignty and the applicability of existing international law in cyberspace, strategic cyber threats and targets, the need to adopt an offensive-defence strategy in cyberspace, existing charters for protection of national cyberspace in India, global practises in national cyberspace protection, and the recommended allocation of charters for defence of India's cyberspace

with emphasis on the role of the Armed Forces and calibre. In contrast to kinetic warfare, **Gp Capt (Dr) M K Sharma** gave a conceptual knowledge of Cyber Warfare, the nature of Threats and Vulnerabilities, and Cyber Offense- Defence- Deterrence Dynamics. He elaborated on NCII and how the National Cyber security Organizational Framework is evolving. **Cdr Mukesh Saini** discussed in depth cybercrimes, as well as their structure and method of operation. To establish the capability, it is vital to have a thorough understanding of these structures, tactics, and organisations, as well as measures to demolish these structures and eliminate the cybercriminals' processes. The presentation concluded with a comprehensive case study. **Shri Mohit Rampal**, Founder and Chief Executive Officer of Ramognee Technologies, the seminar's Gold Sponsor, gave a presentation on the technological aspects of Cyberspace capabilities while emphasising the compelling case for simplifying

security. Shri Rampal emphasised the Make in India Capabilities Bridge by discussing APIfication, since APIs are the front entrance to an owner's application and data. RAPIFUZZTM (RAPI) is a "Make in India" tool that conducts a series of security checks against web APIs based on the OWASP API Security Top 10 2019 standards.

**Col (Dr) Bipin Pandey** gave the closing speech thanked all speakers, the organising team, the distinguished guests, the faculty members, the students, the Director –GCET, the Head of the ECE Department, the Faculty Coordinators, the Student Coordinators, and the other people who helped make the seminar a success. The Guest Speakers and people on the organising team were given flowers, small gifts, and IETE journals. Certificates of participation were given to the people who put the event together, the faculty, and the students.



### West Zone : Ecosystem for Electric Vehicle Technologies

IETE Pune Centre and MIT ADT University, Pune held a two-day zonal seminar along with the ISF Congress on 16<sup>th</sup> & 17<sup>th</sup> Sept 2022 on the topic **Ecosystem for Electric Vehicle Technologies**. The goal of the seminar was to bring together undergraduate and graduate students, professors, researchers, scientists, and people from the business world to talk about new trends in the field of Innovative Electric Vehicle Technologies and make learning better. This was a place to talk about ideas that could lead to the growth of an industry that is good for the environment.

The seminar began with lighting of the inaugural lamp and Saraswati Vandana. The overall programme was anchored by Prof Ragashri Bakare and Prof Poonam Dole. **Prof (Dr) Virendra V Shete**, Chairman Pune Centre, Vice Principal & Head, Dept of ECE welcomed **Prof (Wg Cdr) P Prabhakar**, President IETE, Chief Guest of the event, **Dr K C Vora**, Guest of Honour CEO, COEP's Bhau Institute, Professor Emeritus, COEP, dignitaries & participants. He discussed the theme topic and its significance in the present environment, as well as how the department promotes this through various events. In addition, he underlined the interdisciplinary approach, the NEP 2020 policy goal, and the National Skill India.

**Prof (Dr) Kishore Ravande**, MIT School of Engg, Pune, in his address said that education is key to realising human potential, building a just society, and fostering national prosperity. It gives universal access to quality education, important for economic growth, social fairness and equality, scientific advancement, national integration, and cultural preservation. He also emphasised electric vehicles' future role.

**Prof P Prabhakar**, Chief Guest, **Dr K C Vora**, Guest of Honour, **Dr Mangesh Karad**, Executive President & VC MIT ADT University, **Prof**

**(Dr) Ashwini Kunte**, Zonal Mentor (West), **Prof J W Bakal**, Immdt Past President, and **Prof (Dr) D S Bormane**, Governing Council Member were recognized on the occasion.

Dr Dhanajay E Upasani, Associate Prof ECE, and Dr Manoj R Hans FIETE, Assoc Prof ECE, MITSOE Pune, organised the event.

**ISF Congress:** The ISF Congress was held on September 17, 2022. On this special day, numerous activities were planned.

- a) **Poster Presentation Competition:** The competition was organised by the ECE Department, MIT School of Engineering, and MIT ADT University to raise awareness of Green Energy, the advantages of electric vehicles, and renewable energy sources. The first award was won by **Ms Dnyanand Sashsane, Shri Ayush Gudi, and Shri Hrishikesh Chougule**. **Ms Anushka Dawande** and **Ms Sneha Singh** won the second-place award. The third award was won by **Shri Shubh Sathe, Shri Parth Chopade and Shri Ayush Patil**. The competition's theme was "**Green Energy**." The event's chief guest was **Prof (Dr) Sachin Takale**. Prof (Dr) Shubhangi Joshi coordinated the event.
- b) **Technical Presentation Competition:** It was organised so that students may demonstrate their domain expertise and presentation skills. Electric Mobility, Beyond 5G, Advances in VLSI Technology, and the Role of the IETE Professional Chapter in Engineering were the subjects presented to the participants. The first prize was awarded to **Shri Aditya Mhatre and Ms Shruti Bera** on the theme of "Electric Mobility," while the second prize was awarded to **Ms Medha Bhatt and Ms Vanshika Kukreja** on topic "Beyond 5G". The

event's chief guest was **Professor (Dr) Shubhangi Joshi**. Prof Vinayak Ragho coordinated the occurrence.

- c) **Webinar on Ecosystem for Electric Vehicle Technologies:** In order to educate the students on the Ecosystem for Electric Vehicle Technologies, a webinar was organised. **Shri Gajendra Singh**, Application Engg, Entuple Technologies Pvt Ltd, Bengaluru, Karnataka, was the keynote speaker. He exhibited the modular, scalable, and model-based design environment-supported Wavect real-time control prototyping system. It is perfect for cutting-edge power conversion system research and development. Prof (Dr) Sachin Takale oversaw the coordination of the programme. More than fifty people attended the seminar.

At the end, thanks were given to **Prof (Dr) Vishwanath Karad**, Founder MAEER's MIT Group of Institutions & President MIT ADT University; **Prof (Dr) Mangesh Karad**, Executive President & VC, MIT ADT University; **Prof (Dr) Sunita Karad**, Dean Faculty of Management, Director MITCOM, Director ICTMIT ADT University; **Prof (Dr) Anant Chakradeo**, Pro Vice Chancellor, MIT ADT University; **Prof (Dr) V Gunasekhar Reddy**, President Elect, Chairman (BoA) IETE; **Prof (Dr) K T V Reddy**, Immdt Past President, IETE; **Dr M H Kori**, Vice President & Chairman (TP&PC); **Prof Dr A P Thakare**, Vice President & Chairman (CCC) and Co-Chairman (TP&PC); **Prof (Dr) R D Kharadkar**, Immdt Past Chairman, IETE Pune Centre for their support, motivation & guidance.



### South Zone : Cyber Forensics and Cyber Security

On the 17<sup>th</sup> and 18<sup>th</sup> of September 2022, the **IETE Bangalore Centre** hosted a two-day **Zonal Seminar (South Zone)** on “**Cyber Forensics and Cyber Security.**”

The **ISF Congress**, held on September 17, 2022, began with an invocation song performed by Ms Prathibha H V. The dignitaries were welcomed by **Dr CV Ravishankar**, Vice Chairman of the Centre. The event began with the lighting of a lamp and was followed by numerous technical competitions organised by various ISF co-ordinators. **Dr T Palaniswamy** held a Quiz Competition. Project Competition was organised by **Prof Soundeswary**. Photography competition was organised by **Dr S G Shivaprasad Yadav**. Shri C Satyanandan, Immdt Past Chairman, introduced the principal guest and also spoke about Engineers' Day. **Dr TV Prabhakar**, Principal Research Scientist at IISc in Bangalore, gave a session on Cyber Security. The Chairman of the Centre, **Dr C P Dwivedi**, addressed the audience and distributed souvenirs to the attendees. **Dr M H Kori**, Vice President and Chairman of the TPPC, also addressed the gathering. **Prof (Wg Cdr) P Prabhakar (Retd)**, President of IETE, presented the presidential address. He awarded awards and diplomas to the winners and participants and congratulated the entire Bangalore team for their efforts in making the programme a huge success. **Shri K S Ravi**,

a member, proposed the vote of thanks.

On September 18, 2022, the Centre hosted a **zonal seminar on “Cyber Forensics and Cyber Security.”** **Dr S D Sudarshna**, Executive Director of C-DAC, was the keynote speaker during the event. **Dr S G Shivaprasad Yadav** welcomed the delegates and guests. **Dr R Balaji**, an EC member, provided information regarding the zonal seminar. **Dr CP Dwivedi** gave the guests an introduction. The conference was divided into four technical sections led by renowned industry professionals. **Dr Balaji Rajendran** conducted the first session on **Cyber Security in a Metaverse World**. **Dr Muraledharan**, C-DAC Bangalore, led Session 2 on **Zero Trust Architecture**. **Shri Gopinath**, C-DAC Bangalore, delivered Session 3 on **Ransomware Detection and Forensics**. **Shri Santosh Chaluvadi** and **Shri Naveen Kumar**, CTO, Supraja Technologies' Session 4 was on a detailed practical presentation on **How Hackers/Cyber Criminals are looting e-commerce platforms**.

**Dr M H Kori**, **Shri G Ramesh**, and **Prof H S Bhatia**, members of the Bangalore Centre's Governing Council also addressed the gathering. **Prof (Wg Cdr) P Prabhakar** gave the presidential address and wished the event well. All delegates received participation certificates. **Shri K S Ravi** offered the vote of thanks at the end.



## News from IETE Centres /Sub- Centres

### ALIGARH

- New Executive Committee (EC) of IETE Aligarh Centre was approved by the President of IETE in New Delhi on 19 July 2022. The new EC assumed control of the IETE Aligarh Centre on July 20, 2022.
- On 28<sup>th</sup> Sept 2022, a one-day webinar entitled “**Variable Frequency Transformer for Power Flow Control**” was organised. **Dr Farhad Ilahi Bakhsh**, Asst Prof, Dept of Electrical Engineering, NIT Srinagar, was the speaker. **Prof M A Siddiqi**, Chairman of the IETE Aligarh Centre, delivered the program’s opening address. **Dr A Samad**, Hony Secretary conducted the programme. He provided an outline of the significance of VFT and discussed how a variable frequency transformer operates. The resource person then provided the technical presentation. **Mr Tehzeeb A Abbasi**, Hony Treasurer of the IETE Aligarh Centre, gave the vote of thanks. The event was attended by 35 participants from Diploma/B Tech/M Tech Courses.
- A meeting of the new EC of IETE Aligarh Centre was convened on 27<sup>th</sup> Oct 2022 in the Dept of Electronics Engineering at Aligarh Muslim University to review the Centre’s future activities plan.

### ALLAHABAD

- The Centre observed **Engineers’ Day** on 15<sup>th</sup> Sept 2022. **Prof KK Bhutani** was the Chief Guest on this occasion. **Prof R S Yadav**, Chairman, welcomed the audience. Er P N Gupta introduced the Chief Guest. Prof R S Yadav spoke on Sir Mokshagundam Vishweshwarya and his thoughts on the Engineers’ Day function on this occasion. **Er D K Srivastava**, **Er Rajeev Srivastava**, **Er Alok Singh**, **Er Devesh Mishra**, Faculty Members and Research Scholars of J K Institute of Applied Physics and Technology, University of Allahabad, were present. During the discussion, **Prof K K Bhutani** provided some background information on Mokshagundam Vishweshwarya and discussed the events that led to his academic successes. Finally, **Dr Y D Dwivedi**, Hony Secretary, offered the vote of thanks.
- On 7<sup>th</sup> Nov 2022, the Centre hosted the **69<sup>th</sup> IETE Foundation Day** in the Centre’s conference hall. **Er Suresh Kumar**, Principal Engineer Telecom (CORE) was the Chief Guest at this event. On this occasion, prominent IETE Allahabad Centre members **Dr G S Darbari** (F-058002) and **Col Anurudh Pratap Singh** (F-121502) were to be honoured. Unfortunately, they were already committed, thus they were unable to attend the event.



The Honorable Chairman, **Prof (Dr) R S Yadav**, presented a welcome address at this event. **Prof K K Bhutani** (DF-032767) also delivered a lecture titled “**National Education Policy (NEP)**”. Prof S G Prakash,

Er M K Singh, Er Rajeev Srivastava, Prof Ashish Khare, Er Devesh Mishra, along with other research researchers and faculty members from the University of Allahabad’s Department of Electronics and Communication, graced the event. Prof R S Yadav delivered the vote of thanks.

### AURANGABAD

- On the occasion of the **54<sup>th</sup> World Telecom & Information Society Day (WT&ISD)** on 11<sup>th</sup> June 2022, an **online** lecture was given on “**Digital Technologies for Older Persons and Healthy Ageing.**” **Dr Aparna Ashtaputre**, HoD Dept of Psychology, Dr BAM University, Aurangabad, delivered the lecture. There were 30 people in attendance.
- The Centre held its **Annual General Meeting (AGM)** at Ch Shahu College of Engineering in Aurangabad on 25<sup>th</sup> June 2022. There were 25 people at the meeting. The meeting was helpful for IETE EC members and its body because it gave them a chance to talk about the past and plan for the future.

### BANGALORE

Following were the events that the Centre organised during the review period:-

- From 31<sup>st</sup> July to 25<sup>th</sup> Sep 2022 Intel’s **Shri Padmanabham** led an online **Advanced FPGA Design** weekend course.
- **Dr C V Ravishankar**, Vice-Chairman and ISF Coordinator, organised an **ISF Coordinators Meet** on 24 July 2022 to review courses and internship programmes and to request participation in all IETE Bangalore events.
- From the 27<sup>th</sup> to 30<sup>th</sup> of July 2022, the Bengaluru Centre hosted a hybrid **Microstrip Antennas Course** for BEL Executives at the Bharat Electronics Academy of Excellence in Nalanda. The course director was **Dr SG Sivaprasad Yadav**.
- At the Bharat Electronics Academy of Excellence in Nalanda, the Center held an **Advanced Radar Course** for BEL Executives on 5<sup>th</sup>-6<sup>th</sup> Aug 2022, in hybrid mode. The course was directed by former chairman **Dr D C Pande**.
- Flag hoisting took place on 15<sup>th</sup> Aug 2022, in honour of **Independence Day**. The chief guest was **Prof N C Shivaprakash (Retd)**, IISc.
- The Centre offered engineering students a one-month internship on **Embedded Systems and IoT Applications** from 28<sup>th</sup> Aug to 25<sup>th</sup> Sept 2022.
- At the Bharat Electronics Academy of Excellence in Nalanda, the Centre held a hybrid session on **Technology Strategies for Strategic Weapons** on 26<sup>th</sup>-28<sup>th</sup> Sept 2022 for BEL Executives. The course coordinator was **Dr Suryanaryanan**, Retd Director of DRDO.
- **Wg Cdr HR Parthasarathy**, former Chairman, Bangalore centre performed the **Ayudha Pooja** on 5<sup>th</sup> Oct 2022.
- **Prof C Murali**, DF and former Vice President, IETE delivered technical talk on 12<sup>th</sup> Oct 2022. Prof HS Bhatia, former Chairman, IETE

Bangalore also addressed the audience.

- Faculty, Cambridge University conducted ‘**Cambridge English Course**’ for LRDE executives during 17<sup>th</sup> -20<sup>th</sup> Oct 2022.
- **Shri Suresh P**, PTC Inc was the faculty for a course on ‘**Fundamentals of XR and Its Applications**’ conducted for BEL Executives on 20<sup>th</sup> -22<sup>th</sup> Oct 2022.
- ICAI examinations were conducted on 1<sup>st</sup> -17<sup>th</sup> Nov 2022. **Dr CP Dwivedi**, **Prof HS Bhatia**, **Shri C Satyandan**, **Prof C Murali**, **Shri KS Ravi** and **Dr SG Shivaprasad Yadav** were superintendents of examinations and **Shri Dinesh** was the chief invigilator.
- **Shri Vinay Avanchi** conducted a 7-week course on **IHOT** on 3<sup>rd</sup> Nov 2022. **Shri KS Ravi**, Jt Secretary inaugurated the course.
- **Dr CV Ravishankar**, Vice-Chairman, IETE Bangalore at RRIT delivered technical talk on ‘**Career guidance after UG and information about PG (MS, MTech, GRE, TOEFL, GATE, JRF)**’ on 4<sup>th</sup> Nov 2022.
- IETE **69<sup>th</sup> Foundation Day** celebrations were held with **Dr KR Venugopal**, as the Chief Guest. He spoke on the theme topic ‘**NEP 2022: A Paradigm Shift in Skill Based Higher Education: Challenges and Opportunities**’ on 20<sup>th</sup> Nov 2022, presided by **Prof (Dr) V Gunasekhar Reddy**, President IETE. **Dr CP Dwivedi**, Chairman, IETE Bangalore welcomed the Chief Guest. **Dr SG Shivaprasad Yadav**, Hon Secretary, Bangalore Centre introduced the Chief Guest. **Shri C Satyanandan**, Past Chairman expressed his views. **Dr CP Dwivedi** then introduced the MoU signed between IETE Bangalore and CMR University. **Prof C Murali** and **Shri George Cleetus** shared their experiences. **Dr DG Rao**, Hon Treasurer proposed vote of thanks.
- A course on ‘**Design Thinking and Innovation for New Product Development**’ was conducted for BEL executives on 21-24 Nov 2022.
- **Dr I Thirunavakarasu** was resource person for Webinar on **Nonlinear Control Systems** held on 25<sup>th</sup> Nov 2022, conducted by Dr T Thimmaiah Institute of Technology, Kolar Gold Fields in association with Bangalore Centre.
- **Dr Nilanjan Dey** delivered a **guest talk** on ‘**Addressing Challenges in Research Publications**’ on 26<sup>th</sup> Nov 2022. **Dr Surekha Borra**, Professor, ECE Dept & Chief Research Coordinator, KSIT, Bangalore, welcomed the gathering. **Dr PN Sudha**, HoD, ECE Dept welcomed the Guest speaker.
- A course on ‘**Unnamed Systems**’ was organized during 05<sup>th</sup>-08<sup>th</sup> Dec 2022.
- To conduct IICI 2023 in collaboration with BEL, an IETE Team went to Bharat Electronics Corporate Office to meet BEL CMD **Shri Bhanu Prakah Srivastava**. The team from IETE consisted of **Dr Gunasekhar Reddy**, President IETE, **Dr Baswaraj Gadgay**, Vice President and mentor, **Prof (Dr) K Jaya Sankar**, Vice President and Honorary Treasurer, **Shri Sunil**, ADG, Prasar Bharati & President BES; **Dr C P Dwivedi**, Chairman, IETE Bangalore, **Dr S G Shivaprasad Yadav**, Hony Secretary, **Prof HS Bhatia**, former GC Member and Past Chairman, Bangalore Centre, **Shri G Ramesh**, former GC Member and Past Chairman, Bangalore Centre.

## BURDWAN

- The Burdwan Sub-Centre and Dept of Physics at the University of Burdwan hosted a webinar titled “**Is it the same dynamical theory of Electromagnetics that Maxwell had thought is taught today**” on 30<sup>th</sup> July 2022. The webinar was addressed by Chief Guest **Prof Rowdra Ghatak**, NIT Durgapur. The Chairman of the Sub-Centre, **Dr Aninda Bose**, welcomed college / university students, researchers, faculty members, and scientists.
- The Sub-Centre celebrated **Azadi ka Mahotsav** on 13<sup>th</sup> Aug 2022 at the University of Burdwan’s Department of Physics. **Dr Anindya Bose**, Chairman of the Sub-Centre, addressed a webinar on “**Milestones in Indian Modern Science and Technology: a Retrospect on the Eve of 75 Years of Independence**” on this occasion. The Hony Secretary of the Burdwan Sub-Centre, **Dr Debabrata Biswas**, welcomed the school students, teachers, MTech students, and research scholars on the occasion.

## CHANDIGARH

**Dr Sanjeev Soni**, Sr Principal Scientist, CSIR-CSIO Chandigarh and IETE-Hari Ramji Toshniwal Awardee of 2022, delivered a talk on ‘**Light Sources for Visible & Near Infrared Electromagnetic Radiations and their Applications**’ on IETE’s 69<sup>th</sup> Foundation Day on 2<sup>nd</sup> Nov 2022. **Dr Amod Kumar**, Chairman, Chandigarh Centre welcomed the guests. And highlighted salient features of ‘**NEP 2020: A Paradigm Shift in Skill Based Higher Education: Challenges and opportunities**’. **Dr Sanjeev Kumar**, Hony Secretary, IETE Chandigarh Centre read out President’s message. **Dr R P Bajpai (F-050530)** was felicitated. **Gp Capt RC Goyal, VSM (Retd)**, IETE GC Member addressed the audience. **Wg Cdr Prof P Prabhakar (Retd)**, Imdt Past President, **Shri SK Angra**, Past Chairman, IETE Chandigarh Centre & **Dr GS Singh**, ex-Chief Scientist, CSIR-CSIO shared their views. **Dr PK Awasthi**, Honorary Treasurer, Chandigarh Centre proposed vote of thanks.



## CHENNAI

- **Dr D Vijendra Babu**, Vice Principal, AVIT VMRF DU, Hony Secretary, Chennai Centre, conducted a seminar on “**Intelligent Transport Systems**” on 20<sup>th</sup> July 2022. The session was attended by 25 people.
- On 15<sup>th</sup> Aug 2022, the Centre celebrated **Independence Day** on the Centre Campus, with Executive Committee members in attendance.
- The Centre hosted a **virtual meeting** for the **ISF coordinators** on 17<sup>th</sup> August 2022.
- A workshop was organized on “**Hands on Training on Implementation on Projects using AI and ML**” on 27<sup>th</sup> -28<sup>th</sup> Aug 2022 by **Dr Ashwin Seshathri**, Dy General Manager, Motherson Technology Pvt Ltd, Chennai. It was attended by 80 members.
- The Centre held events for both **Teachers’ Day** and **Engineers’ Day** on 13<sup>th</sup> Sept 2022. Dr P Dananjayan, Vice Chancellor of St Peter’s Institute of Higher Education and Research and former Principal of Pondicherry Engg College, was the Chief Guest at this event. The **IETE Best Faculty Award** went to **Dr Sanjeev Kumar Padmanaban**, Professor of EEE and Head of ICSR at KPR Institute of Engineering and Technology in Coimbatore; **Dr M G Sumithra**, Prof HoD of BME at Dr N G P Institute of Technology in Coimbatore, and **Shri C Saravanakumar**, Asst Prof of ECE at SRM Valliammal Engineering College in Chennai.
- The Centre organised “**Maj Gen Balasubramaniam Endowment Lecture Series**” on 5G and beyond Technologies, Application and Challenges. The esteemed speakers on the occasion were **Shri J Santhanakrishnan**, Principal, Retd RGMTC, Chennai & **Shri A Sadagopan**, Assistant General Manager (Retd), BSNL on 26<sup>th</sup> Sep 2022.
- On 12<sup>th</sup> Nov 2022, **IETE Foundation Day** was observed online at KCG College of Technology, Chennai. “**NEP 2020: A Paradigm Shift in Skill-Based Higher Education: Challenges and Opportunities**” was the theme of the event. **Dr Tata Sudhakar**, Group Head-Ocean Electronics Group, Scientist G, National Institute of Ocean Technology (NIOT), Chennai, was the Chief Guest at the event. **Ms S Mohana Sundari**, Scientist F, Combat Vehicles Research & Development Establishment (CVRDE), DRDO, Avadi, Chennai, was the the Guest of Honor during the event. The event began with a welcome address from the Centre Chairperson **Dr V Thulasi Bai**. Dr D Vijendra Babu, IETE Chennai Centre’s Honorary Secretary, read the Foundation Day message from the IETE President. During his address, the Chief Guest spoke about the Opportunities in Ocean Technologies, along with the Blue Economy. **Prof N Lakshminarasamma, Winner of IETE - Bimal Bose Awardee – 2022**, Professor, Dept of Electrical Engineering, Indian Institute of Technology (IIT) Madras, Chennai, delivered a presentation on her works in the field of Efficient Power Management Techniques. As part of the ceremony, mementos were presented to senior veterans **Dr Subburaj Ramasamy** (F-55557), **Shri Shankaran Madivaanan** (M-53302), and **Shri Shunmuga Sundram, RPB** (F-235893). **Dr Kavitha Balamurugan**, KCG College of Technology, delivered the closing remarks, which marked the conclusion of the event.

## DELHI

- IETE Delhi Centre and Bharti Vidyapeeth's Computer Society of India (BVPCSI) organized a webinar titled “**Data Privacy - A Humanistic Perspective**” on 10<sup>th</sup> Sept 2022. Nearly 100 individuals attended the webinar. IETE (DC) Executive Committee Members, IETE (DC) Staff, IETE Students, BVPCSI Students, and IGNOU Students were in attendance.
- Conducted One year ‘O’ level Computer Course.
- Examinations conducted: IGNOU during 22<sup>nd</sup> July to 5<sup>th</sup> Sept 2022; NSEIT online on 2<sup>nd</sup> Aug 2022 and TCS JEE online on 8<sup>th</sup> Aug 2022.

## ERODE

The IETE Erode Centre, in partnership with ISF at Kongu Engineering College (KEC), Erode, hosted a **Drug Awareness Session** on 13<sup>th</sup> Aug 2022. **Dr T Meeradevi**, Centre Chairperson, delivered the opening remarks. **Shri R Manivannan**, Sub-Inspector of police at Vellore, Erode, was the chief guest and keynote speaker at this event. He raised public awareness about the negative impacts of drug use and the public’s health issues. Additionally, he instructed the pupils to wear helmets and observes traffic regulations. ISF Kongu Engineering College’s Secretary, **Smt V Sahasra**, presented vote of thanks. Executive Committee members, IETE Corporate Members, and ISF students attended the occasion. The ceremony concluded with the playing of the national anthem.

## HYDERABAD

- “**Telecommunication Aspects in Indian Railways**” was the topic of an invited talk given by **Mr SM Hafeez Ali**, Assistant Professor (Telecom) at IRISSET in Secunderabad on Nov 2, 2022. Shri T Sridher, FIETE, Asst Professor, ECE, CBIT; Shri P Ranjith, Asst Professor, ECE, CBIT; and Shri P Chandrashekar, Asst Professor, ECE, CBIT; all serving as faculty coordinators were present. Students’ coordinators Snehitha Battula, Sujith Kudupudi, and Varun Kamshetty were also present. The second volume of the NSRC brochure, “Navigation and Communication Research Centre,” was released.
- **Professor Emeritus Dr Shibhan Koul**, IIT Delhi and Board of Directors Astra Microwave Products Limited, MTT MGA R10 coordinator delivered **Guest Lecture** on ‘**Engineering Education Innovative Research – New Opportunities**’ on 28<sup>th</sup> Nov 2022. **Dr Sandeep Kumar Chaturvedi**, DGM GAETEC Hyderabad and chapter chair MTT-S, **Prof V Gunasekhar Reddy**, President IETE and **Dr Y Padmasai** IEEE SB chair were guests of honor. Professor Koul emphasized the need to involve engineering students in interdisciplinary projects with innovation as priority. **Ms Kanthi Sudha** Coordinator, VNR VJIET MTT-S chapter, too addressed the audience.



## INDORE

● IETE Sub-Centre Indore celebrated **IETE Foundation Day** on 8<sup>th</sup> Nov 2022 with a **Poster Competition** titled "**NEP: Skill-Based Education.**" The purpose of the event was to educate students about NEP in order to improve their employment prospects. **Dr Anjana Jain** of SGSITS, Indore, a member of the executive committee, judged the entire poster presentation and praised the student's efforts. **Dr Garima Ghai**, Chairman of the IETE Sub-Centre in Indore, read the president's message and extended congratulations to the event's winners and attendees. **Dr Hemant Patidar**, Treasurer of the IETE Sub-Centre in Indore, also extended good wishes to all attendees. **Ms Bhavini Kumawat**, a member of the Executive Committee, briefed all students on IETE and encouraged them to engage and join. The event's winners received certificates and cash prizes.



## JABALPUR

● On 15<sup>th</sup> Sept 2022, the IETE Jabalpur Sub-Centre and Baderia Global Institute of Engg and Management, Jabalpur, co-hosted the **Innovative Engineering Design Idea Contest – 2022**. 40 teams comprising 150 students participated in the competition. The event was managed by **Dr Pankaj Sahu** for the IETE Jabalpur Sub-Centre and hosted by **Dr Raj**, vice-chairman of Baderia Global College.



● On 15<sup>th</sup> Sept 2022, the Sub-Centre and ISF Gyan Ganga Institute of Technology and Sciences, Jabalpur, organised different programmes to celebrate **Engineers' Day**. The competitions comprised Poster Design, Extempore, an Engineering Quiz, and Essay Writing. **Dr Pankaj Sahu** coordinated the occasion.



## KAKINADA

● On 2<sup>nd</sup> Nov 2022, the IETE Kakinada Centre observed the **69<sup>th</sup> IETE Foundation Day** at the ECE Department of the University College of Engineering Kakinada, JNTUK Kakinada. **Dr B Prabhakara Rao**, Former Vice-President, Former IETE Governing Council Member, IETE New Delhi; **Dr MHM Krishna Prasad**, Principal, University College of Engineering Kakinada; **Dr AM Prasad**, Former Chairman IETE, Kakinada Centre, Professor in Dept of ECE; and **Dr B T Krishna**, Chairman of IETE Kakinada Centre were in attendance. **Dr BT Krishna** read the president's address based on the theme entitled "**NEP 2020: A Paradigm Shift In Skill-Based Higher Education: Challenges and Opportunities**". The chief guest, **Dr B Prabhakara Rao**, encouraged students to join IETE-ISF and benefit from ISF Forum. **Dr MH M Krishnan** Prasad addressed the faculty and student bodies on the importance of IETE. Students participated enthusiastically in these celebrations.



## KALABURAGI

● On 14<sup>th</sup> Nov 2022, IETE Kalaburagi Centre commemorated **IETE's 69<sup>th</sup> Foundation Day** in magnificent manner. On this occasion, IETE Vice President **Prof (Dr) K Jaya Sankar**, the keynote speaker, spoke on the topic, '**NEP 2020: A Paradigm Shift in Skill-based Higher Education, Challenges, and Opportunities**'. IETE President, **Prof Gunashekhar Reddy**; IETE Vice-President and VTU Kalabugli Regional Director, **Dr Baswaraj Gadgay**, Secretary General IETE, **Gp Capt Sonpal Singh (Veteran)**; Chairman-IETE-Hyderabad, **Dr Nuli Namassivaya**; **Dr Deshmukh** from Warangal, **Dr M Baswaraj**, former Vice President, IETE, and **Dr Shubhangi**, IETE GC Member, graced the occasion. **Prof Channaveeramma E**, Associate Member IETE, was awarded with a token of appreciation. Principals of several engineering colleges in the Kalaburagi Region, PhD candidates and engineering students, as well as faculty members from other colleges and universities were present.

● Indian Association of Physics Teachers (IAPT) Karnataka (RC12) and IETE Kalaburagi Centre celebrated **International Year of Glass (YoG)-2022** and organized an International Conference on **Functional Glasses (ICFG-2022)** on 13<sup>th</sup> -14<sup>th</sup> Nov 2022 in collaboration with

Karnataka Science and Technology Academy (KSTA) and Karnataka State Council for Science and Technology (KSCST). **Dr V Gunasekhar Reddy**, President IETE, **Sr Yashwant V Gurukar**, Dy Commissioner, Kalaburagi, inaugurated the event.



Guests of Honour included **Dr GP Kothiyal**, former Head Glass & Advanced Ceramics Division, BARC & Chairman MRSI Mumbai Chapter, **Dr PK Ahluwalia**, **Dr BB Kale**, DG, Center for Materials for Electronic Technology (C-MET) Pune, **Dr A Ramesh**, CEO KSTA, Bengaluru, President, IAPT, Simla. It was presided by **Dr Baswaraj Gadgay**, Regional Director I/C, VTU, Kalaburagi, Vice President & Zonal Mentor (South). The event was convened by **Dr MS Jogad** and **Dr LA Udachan**, Convener ICFG-2022, Kalaburagi EC Member, IAPT. Pre-conference poster session including 3D Printing was held for students on 13<sup>th</sup> Nov 2022. **Sr Yashwant V Gurukar**, Dy Commissioner, Kalaburagi, released IYOG-NCFG 2022 Souvenir & Book.

The invited talks delivered were by **Govind Prasad Kothiyal**, Chairman MRSI Mumbai Chapter and MRSI Subject Chairman: Ceramics and Glasses Formerly Head Glass and Advanced Ceramics Division, BARC, on 'Glass for Sustainable Development: A Material for Every Walk of Life'; **Bharat B Kale**, Scientist-G, Director General, Centre for Materials for Electronics Technology (C-MET), MeitY, Panchavati, Pune, on 'Nanostructures: design and synthesis for solar light has driven hydrogen production and storage'; by **AR Kulkarni**, Dept of Metallurgical Engineering and Materials Science, IIT Mumbai, on 'Ionics in Phosphate Glasses: Looking Back, Looking Forward'; by **Dr MS Jogad**, Chairman Advisory Committee, Karnataka State Council for Science and Technology, Kalyan, on 'Dielectric and Structural studies of some Oxide Glasses and Glass-ceramics'; by **José MF Ferreira**, CICECO - Aveiro Institute of Materials, Dept of Materials and Ceramic Engineering, University of Aveiro, Santiago University, Portugal, on 'Alkali-free bioactive glass compositions for the most demanding applications in healthcare, bone regeneration and tissue engineering'; by **B Roling & N Kaiser**, Philipps-Universität Marburg, Hans-Meerweinstraße, Germany, on 'Characterization of Solid Electrolytes and All-Solid-State Batteries under Active Pressure Control'; by **CK Jayasankar**, Department of Physics, Sri Venkateswara University, Tirupati, on 'Doped Glasses'; by **Rashmi P Salagare** (Rashmi Jogad) Sathya Sai University for Human Excellence (SSSUHE), Kalaburagi and **PSR Krishna** Solid State Physics Division, BARC, Mumbai, on 'Lead silicate glass structural unit investigation by neutron diffraction'. 88<sup>th</sup> Birthday celebration and felicitation of **Poojy Dr Sharnabasawappa Appa** held to honour him to initiate and support research work of **Dr M S Jogad** for establishing DAE BRNS Research lab at Sharnabasaveshwar College of Science.

● **Prof (Dr) Santishree Dhulipadi Pandit**, Vice Chancellor of Jawahar Lal Nehru University inaugurated the **International Conference on Multidisciplinary Research (ICMR-2022)** organised by IETE Kalaburagi Centre, in association with Sharnbasva University, Kalaburagi on 22-24 November 2022. **Dr Jerry Chun Wei Lin**, University of Applied Science, Western Norway was the Keynote Speaker for inaugural session. **Prof Battu Satyanarayana**, Vice-Chancellor, Central University of Karnataka and **Dr Poornima Gorge**, President, Gnyana Sudha Education Society, Bidar were Guests of Honour. A galaxy of renowned international and national speakers presented their views in nine concurrent sessions, 25 plenary sessions. Pre-conference and Post-conference tutorials on 21<sup>st</sup> and 25<sup>th</sup> Nov 2022 provided insights into emerging technologies. Accepted papers were published in proceedings and indexed by Google Scholar.



The Conference owes its success to the visionary guidance of Chancellor **Dr Sharnbasappa Appa**, Matoshree **Dr Dakshayani S Appa**, Chairman Sharnbasva University, **Shri Baswaraj Deshmukh**, Secretary, Sharnbasveshwar Vidya Vardhak Sangha and **Dr Niranjan V Nisty**, Vice-chancellor and the hard work put in by the organizing committee, chaired by **Dr Lakshmi Patil Maka**, Dean Sharnbasva University and Chairman, Kalaburagi Centre. Co-Sponsors were Indian Society for Technical Education and IEEE Women in Engineering. As part of the conference, **Prof (Dr) V Gunasekhar Reddy**, President IETE inaugurated **Sharnbasva University's IETE Student Forum**.



## KANPUR

● The Centre and IE (India), Kanpur local centre, in collaboration with Harcourt Butler Technical University, IEEE U P Section, and Association of Professional Graduate Civil Engineers, Kanpur, celebrated the **55<sup>th</sup> Engineers' Day** on 15<sup>th</sup> Sept 2022 at the Radhakrishna Auditorium of HBTU, Kanpur. **Prof Samsher**, VC of the HBTU in Kanpur, was the chief guest at this event. **Er Shivsharanappa G N**, IAS, Nagar Ayukt, Kanpur Nagar, was the guest of honour. The keynote speaker was Kanpur Metro Rail Project Chief Project Manager **Er S N Jha**. His presentation was entitled "Smart Engineering for a Better



World,” wherein he stated that engineering is a proud legacy of our civilization. The Harappan system of urban planning and government is still a dream for any city. India pioneered marine engineering and metallurgy. We abandoned our history and accepted unsustainable engineering approaches. Global warming is increasing the intensity and frequency of extreme weather. Northern India’s Air Quality Index is Toxic from October to December. Automobile emissions create most US air pollution. All Indian cities’ traffic congestion worsens daily. Metro decongests city roadways and reduces air pollution. Metro is safe, efficient, and environmental-friendly. The Kanpur metro is a step toward establishing a commuter-friendly transportation system that reduces traffic congestion.

The Chairman of the Kanpur Local Centre, **Er Vivek Asthana**, FIE, welcomed the Chief Guest and participants. **Er Ramakant Yadav**, Hony Secy, IEI, Kanpur branch, introduced the Chief Guest. **Prof Narendra Kohli**, the Centre’s Chairman, delivered a biography of Bharat Ratna recipient Sir M Visvesvaraya. Prof Pradeep Kumar, convener, introduced the Guest of Honour, while **Er Ajay Gupta**, APGCE, introduced the keynote speaker. Corporate members, students from HBTU and IIT Kanpur, technicians and senior technician members of Institution Kanpur Chapter, and guests from other organisations attended the event. Er Ramakant Yadav, MIE, Hony Secretary, IETE Kanpur presented the vote of thanks.

- The Centre and Harcourt Butler Technical University (HBTU) co-hosted the 69<sup>th</sup> Foundation Day on "NEP: 2020 A Paradigm Shift in Skill Based Higher Education: Challenges and Opportunities" on 2<sup>nd</sup> Nov 2022 at the Dept of CSE, HBTU Kanpur. **Prof Aditya K Jagannatham**, Dept of EE, IIT Kanpur, and **Prof J Ramkumar**, Dept of Mechanical Engg, IIT Kanpur, were the guest speakers at this event. **Prof Narendra Kohli**, Chairman, IETE Kanpur Centre, welcomed the Chief Guest and other attendees. Prof (Dr) J Ramkumar, the Centre’s Hony Treasurer, read the President’s message on this occasion. **Prof Samsher**, the Honorable Vice-Chancellor of HBTU Kanpur, congratulated IETE members on the occasion of the organization’s 69<sup>th</sup> anniversary. He stated that the chosen topic is very topical and appropriate for establishing the road for the education of future generations. The New Education Policy (NEP) 2020 faces the daunting task of overcoming the several issues now plaguing the Indian educational sector. Since its dramatic inception 24 months ago, the NEP has made significant strides in achieving its primary objectives. Given the huge size and diversity of the education system in India, its implementation is challenging. **Prof Aditya K Jagannatham**, the keynote speaker, discussed the Challenges for Existing 4G Networks - Data Rates, Connectivity, Latency Challenges for Existing Cellular Networks, Massive MIMO Technology, mmWave Technology, NOMA, Cooperative Communication, and the Future of 5G in India. **Prof J Ramkumar**, another speaker, discussed the educational system and its issues. Higher education’s role is to develop India and enable economic independence through positive contributions to society. Inadequate process for selection & progression, negligence toward research, lack of competitive peer-reviewed research funding, suboptimal administration and leadership of HEIs, ineffective regulatory framework, and overloaded affiliating universities are concerns. In addition, he proposed a number of alternatives, including effective relationships (collaboration, self-discipline), workplace skills (technology expertise, communication

resource management), and applied knowledge (critical thinking, application skill). **Dr Vandana Dixit Kaushik**, Assoc Prof, Dept of CSE, HBTU, Kanpur, proposed the vote of thanks.



## KATHMANDU

- The 53<sup>rd</sup> Midterm Symposium of IETE was conducted from 30<sup>th</sup> Apr to 1<sup>st</sup> May 2022 in Kathmandu. The focus of the conference was “5G & Beyond: Technologies and Applications.” During the concluding session on Day 2 with the theme “**IETE Roadmap & International Expansion**,” the Centre Chairman **Shri Keshav Gyawali**, outlined a plan to expand the presence and prestige of IETE in the community. Centre cooperated with Rotary Club of Kathmandu ((RI District 3292) to design, develop, and execute a capsule training programme that proved crucial in developing teachers’ ICT abilities.



The competency will enable and subsequently empower them to provide instruction and learning in classrooms equipped with ICT features and applications. In collaboration with R C Kathmandu and other non-profit organisations, the Centre organised two ICT trainings for Public School Teachers. The purpose of the training was to develop document question papers, print them, and share them via email, create a mark sheet and results in excel using formulas, create basic power point slides and present them in class, use email, conduct virtual meetings to conduct online

classes, utilise Google classroom and its features, and locate and utilise online educational resources for teaching and learning. More training is anticipated to be conducted in the future due to the positive response to the training. The training concept is anticipated to be replicated nationwide by government of Nepal teachers training institutions and other non-profit organisations.



**Congratulations to the Kathmandu Team members for carrying out the MTS -2022 recommendations.**

### KOCHI

● The 69<sup>th</sup> IETE Foundation Day celebration of IETE Kochi Centre was hosted at the Christ College of Engineering, Irinjalakuda (CCE) on 17<sup>th</sup> Nov 2022. The programme was presided over by **Shri M N Narayanan**, Chairman, IETE Kochi Centre. The program started with a prayer song by Lia and Johanna. **Dr Caren Babu**, HOD, ECE Dept delivered the welcome speech. **Ms Meenakshi P S**, Vice Chairperson of IETE Student Forum (ISF) of CCE introduced her ISF team and presented a brief overview of its activities. **Fr Antony Davis Pottokaran** CMI, Joint Director, CCE, delivered the opening address. He lauded IETE for providing a common platform for veterans, working professionals as well as students in the streams of Electronics and Telecommunication Engineering to collaborate.



**Shri M N Narayan** read the message from the Hon'ble President of IETE for the 69<sup>th</sup> Foundation day. He also gave a talk on the theme for this year's Foundation Day -"NEP 2020: A Paradigm Shift in Skill Based Higher Education: Challenges and Opportunities." **Shri M N Narayanan**, Chairman and **Shri P Krishnakumar**, Hony Secretary, IETE Kochi Centre, conferred the honours to **Dr K Francis Jacob** (F-135694) Senior IETE Member and Principal General Manager, BSNL, the honoree for this year's foundation day. **Dr K Francis Jacob** delivered his talk on "OTN, FTTH, Mobile 5G Technologies: An

**Overview"** The informative and interactive session covered various arms of the 5G technology which is believed to be revolutionizing the telecommunications domain of the country in the coming years. The meeting concluded with a vote of thanks by **Shri P Krishnakumar**, the Hony Secretary of IETE Kochi Centre.

### KOLKATA

● The Kolkata Centre celebrated **Engineers' Day 2022** on 15<sup>th</sup>-16<sup>th</sup> Sept, 2022. The event was divided into two sections. **Prof (Dr) Joyanta Kumar Roy**, Chairman of the IETE Kolkata Centre, delivered the welcome address and explained the significance of Engineers' Day during the opening session of the first day. The addresses of the present dignitaries were also provided. **Shri Partha Sarathi Biswas**, an engineer and entrepreneur, was honoured by the Centre. **Prof Sayan Chatterjee** of Jadavpur University delivered an online technical lecture titled "Microwave filters-the gateway to modern communication systems" on the second day of the conference in session II. The event closed with a concluding address. Certificates of participation were given to all ISF students.

● From 19<sup>th</sup> to 21<sup>st</sup> Sept 2022, the Kolkata Centre hosted a very successful three-day Women's Empowerment Programme titled "The Role of Technology in Women's Empowerment." The event was organised in collaboration with IETE ISF and featured a series of technical speakers. The session began with a welcoming address by **Prof (Dr) Joyanta Roy**, Centre Chairman, and was followed by remarks from various dignitaries and the felicitation of the speaker. On Day 1, there were two sessions. **Dr Moutushi Singh**, Assoc Prof, Dept of IT & CSE (IOTCSBT & IoT), Institute of Engineering and Management, Kolkata, was the session I speaker. She talked on the subject of "Empowering Women through Technologies". **Dr Mousiki Kar**, Assoc Prof, Dept of ECE, Heritage Institute of Technology, Kolkata, was the 2nd session's speaker. She discussed "Women's Empowerment through Technology: Challenges, Opportunities, and Success Stories." There were two sessions on day two. **Prof Sarbani Roy**, Prof, Dept of CSE, Jadavpur University, Kolkata, spoke during the third session. She presented on "AI for Social Good: Utilizing the Power of Participatory Sensing." **Prof Cella Shahnaz**, Prof, Dept EEE, Bangladesh University of Engineering and Technology, Bangladesh, was the session fourth speaker. Her address was entitled "Research and Innovation for the Empowerment of Women and Sustainable Development." On Day 3, only one session was held. **Dr Sumona Datta**, Asst Prof, Department of Psychology, Faculty of Arts and Sciences, St. Xavier University, Kolkata, was the speaker. "Breaking Glass Ceilings: Myths, Facts, and Changing Perspectives on Women's Empowerment" was the theme of her discussion. The programme concluded with a valedictory session. Approximately 194 corporate and ISF members attended the event. Each student participant received a certificate of participation, and each speaker received a certificate of appreciation in the form of a memento. The detail of each session has been hosted on [www.iete.org](http://www.iete.org) under WEEC programme. The IETE Kolkata Centre, led by **Prof Joyanta Roy**, deserves a lot of credit for their efforts.

● On 29<sup>th</sup> October 2022, the Centre and the Computer Society of India's Kolkata Chapter jointly hosted a webinar on "Enterprise Cloud." **Shri Niladri Roy** was the speaker. He specialises in a variety

of fields, including business strategy, application architecture, data & information, integration, security, cloud computing technology, distributed platforms, mobile, and analytics. He sees CloudOps as a continuation of DevOps and IT. His team, he claimed, concentrates on attaining agility and speed through the creation of best practises and protocols for automating provisioning, software delivery, application management, server management, and server administration. Everything is then made available from the cloud on demand. The steps of continuous software development, integration, testing, deployment, and monitoring are combined to form the DevOps lifecycle, he said. 39 members joined the webinar, which concluded with a question and answer session.

- The Kolkata Centre observed **IETE's 69<sup>th</sup> Foundation Day** online under the theme "**NEP 2020: A Paradigm Shift in skill-based Higher Education Challenges and Opportunities.**" **Dr Moutushi Singh** and **Dr Abhishek Das**, former members of the Exec Com Members, hosted the programme. They provided a succinct overview of the Kolkata Centre's activities. **Dr Aniruddha Nag**, Secretary, Kolkata Centre, gave a welcome address. **Dr Debashis De**, Chairman (Actg), gave the inaugural speech. Chairman **Dr Joyanta Kumar Roy** read the President's Message. **Dr J K Mondal**, the previous Chairman of the Centre, spoke about events in Kolkata and highlighted another programme honouring IETE Foundation Day that was held on 2<sup>nd</sup> Nov 2022, at the Dr Sudhir Chandra Sur Institute of Technology in Dum Dum. Dr K L Hassan introduced **Dr Jawad Yaseen Siddiqui**, who won the **IETE SN Mitra Memorial Award 2022**. "**Antenna Advance for Cognitive Radio Systems: Multifunctional Printed Ultra Wideband Antennas**" was the topic of Dr Jawad Siddiqui's presentation. He discussed Antenna Applications in the Modern World, covering everything from mobile phones to airborne communications to vehicles to SIGINT (signal intelligence) and ISR (intelligence, surveillance and reconnaissance). He also concentrated on current antenna trends. Students, researchers, faculty members, and numerous dignitaries all attended the presentation. Dr K L Hassan, a member of the EC, gave the vote of thanks.

### KOZHIKODE

- On 15<sup>th</sup> Sept 2022, the Kozhikode Sub-Centre, in conjunction with the IE Kozhikode Chapter, observed Engineers' Day. On this occasion, **Shri Jayanth Ganguly**, Senior Technical Officer, Regional Science Centre and Planetarium, gave a talk entitled "**Smart Engineering for a Better World.**" The Chairman of the Sub-Centre, **Dr Sabiq PV**, addressed the audience. **Dr Surendranath**, Chairman for IE in Kozhikode, presented the presidential address. **Shri Swaradh P** delivered the vote of thanks. 50 delegates attended the event.



- In conjunction with the IEEE Malabar sub-section, the Kozhikode

Sub-Centre hosted a webinar titled "**Digital Curation: Emerging Opportunities of Collaboration for Computational Intelligence Researchers.**" on 22<sup>nd</sup> Sept 2022 by **Dr Marcelo Schellini**, professor at VIT's School of Design. **Dr Mredula Pradeep**, Hony Secy, extended a warm welcome to the Chief Guest and attendees, while **Dr Sabiq P V**, Chairman of Sub-Centre, addressed the gathering. **Shri Hemand E P** presented the vote of thanks. Forty students attended the event.

### MANKAPUR

The Centre and ITI Mankapur co-hosted "**Cultural Eve-Ek Sham Deshke Naam**" on the celebration of **Independence Day** as part of "Azadi ka Mahotsav" from 12<sup>th</sup> -15<sup>th</sup> Aug 2022. Under the auspices of this campaign, a series of events was scheduled to commence on 12<sup>th</sup> Aug 2022 with the "**Tiranga Yatra.**" On this occasion, the Centre delivered the National Flag as part of the **Har Ghar Tiranga** campaign on 13<sup>th</sup> Aug 2022.

### MHOW

- On 29<sup>th</sup> Aug 2022, the Sub-Centre hosted a seminar titled "**Technologies used in the Russia-Ukraine War.**" **Lt Col Sunil Kumar Yadav**, FCE, MCTE, delivered the lecture at Iyappa Hall, MCTE, Mhow. The speech was well received by MCTE student forum members and teachers.



- The Sub-Centre organised "**Avinya 2022**" - a Technical Demo session from 28<sup>th</sup> Sept to 29<sup>th</sup> Sept 2022. The goal was to increase awareness of in house MCTE projects and innovations, encourage faculty collaboration on projects and innovations, promote faculty and student interaction with IIT Indore, support school students who want to join the military, and persuade IIT Indore students to take on military problems. Event topics included Artificial Intelligence, Robotics, System Integration, Quantum Technology, Communication, Cyber Operations, Information, Electronic Warfare, and Drone Technology.



- **Prof (Dr) JV Dixit**, Department of Community Medicine, BJ Govt Medical College, Pune, delivered guest lecture on ‘**Lifestyle Modification for Weight-loss and Diabetes Reversal**’ on the occasion of “IETE Foundation Day” on 2<sup>nd</sup> Nov 2022.

## MUMBAI

- On 14<sup>th</sup> Sept 2022, at IETE House in Chembur, the IETE Mumbai Centre celebrated its 14<sup>th</sup> anniversary. On this occasion, **Techxcellence - A Technical Project Poster Competition** was held, giving the students a free platform to share creative notions in a technical poster and compete head-to-head with Mumbai University peers. Communication systems, automation and artificial intelligence, signal and image processing, data analytics and web engineering, networking and security, energy and environmental engineering, and other topics were among the themes presented to the attendees. This contest was divided into two phases: First round of elimination in ISF was set for no later than 12<sup>th</sup> Sept 2022, and the top three entries from each college advanced to the final round of competition on 14<sup>th</sup> Sept 2022. 19 groups of students from various ISFs at the University of Mumbai (within Mumbai, Thane, and Navi Mumbai) registered for the event, and approximately 13 project groups presented their project work via poster presentation; each group was given eight minutes for the presentation, followed by a question-and-answer session with the expert panel and other faculty. The event was evaluated by **Shri N K Karnani** (Retd Scientist) and **Shri Parag Walinjkar**, former Centre Chairman & Senior Scientist at BARC. This event was attended by approximately sixty persons, including all participating students and IETE members.



Energy harvesting, Foot step generator, Artificial Intelligence, and Ticket vending machine were among the other notable concepts in the competition. The groups that were awarded cash awards for winning the Technical Poster Presentation Competition included- Group of final year students from SAKEC received the 1<sup>st</sup> prize of Rs 2,000 for- FASAL: A Crop recommendation system; Group of final year students from SAKEC won the 2<sup>nd</sup> prize of Rs 1,500 for Khoj: When Technology Meets Hope, We Find Missing” and Group of 2<sup>nd</sup> year students from Vidyavardhini CET, Vasai, won the 3<sup>rd</sup> prize of Rs 1,000 for their presentation on Sewage level monitoring device. After the competition, the Technical Program Committee convener, **Dr Vinutha T P**, the Secretary, **Dr Vikas Gupta**, and **Shri Parag Walinjkar** each gave a talk. **Smt Smita Lonkar**, Chairperson of the IETE Centre, then talked about plans for the future and gave some inspiring words. The list of projects presented and their respective colleges who have participated include Artificial Intelligence by K C College of Engineering and Management Studies; Industrial

Safety Smart Helmet by Vishwaniketan Institute of Technology and Energy and Environmental Engineering also from K C College of Engineering and Management Studies.



## NAGPUR

**Dr Prashant Maheshwari**, Dean of RTMNU, Nagpur, was the keynote speaker at the 69<sup>th</sup> Foundation Day celebrations, held on 25<sup>th</sup> Nov 2022, in the presence of **Prof (Dr) V Gunasekhar Reddy**, President of IETE. The event was attended by **Dr RR Deshmukh**, Zonal Mentor (West), and **Dr Nilesh Kasat**. **Dr Salim Chavan**, Chairman of the Nagpur Centre, shared his thoughts. **Dr BP Joshi** (F-229887), Past Chairman of the Nagpur Centre, was honoured. **Dr Suresh Rangankar**, Hony Secretary, **Prof Harshwardhan Kharpathe**, Hony Treasurer, **Dr BP Joshi**, **Er AR Sawatkar**, **Dr SL Badjate**, Past Chairman, **Dr PD Khandait**, **Dr Vijay Mankar**, Vice Chairman, NC, EC member **Dr RD Thakare**, **Dr Hardas**, **Dr Soni Chaturvedi** and **Dr Khanapurkar** were present. Prof Harshwardhan Kharpathe, Hony Treasurer of the IETE, proposed the vote of thanks.



## NASHIK

➤ The Sub-Centre conducted a range of events in collaboration with the Electronics & Telecommunications Department at the K K Wagh Institute of Engineering & Research (KKWIEER), Nashik.

- An expert talk by **Smt Shilpa Kulkarni**, HR Professional “**Being Professional**” was organised on 8<sup>th</sup> Aug 2022.
- A webinar was organised on “**Design thinking critical thinking and innovation design**” by **Prof R Y Ghegade** on 27<sup>th</sup> Aug 2022.
- On 29<sup>th</sup> Aug 2022, the E & TC Department at Karmaveer Kakasaheb Wagh Institute of Engineering Education & Research (KKWIEER) hosted the **E-Ganesha Competition - 2022**. **Prof (Dr) D M Chandwadkar**, Chairman, Nashik Sub-Centre, and guest lecturer **Shri Nikhil Jain**, Chief Manager Engineering, Siemens Ltd, Nashik, graced the occasion. The discussion was preceded by a session on “**How to Design Your Bright Future**” given by the

Chief Guest. Numerous projects, including a smart room with a bidirectional counter, an automatic Prasad dispenser, and an infinite mirror chandelier, were displayed. The workshop concluded with the students inspired to explore ideas creatively and work on their own designs and ideas for a better future.

- Online panel discussion on “**Scope & Career Opportunities in Electronics & Telecommunication Engineering**” was held on 23<sup>rd</sup> Sep 2022.
- In partnership with the Nashik Sub-Centre, the Electronics and Telecommunications Department of Guru Gobind Singh Polytechnic organised a number of activities.
- On 7<sup>th</sup> Sept 2022, **Shri R B Potdar**, Production Manager, Crompton Greaves, delivered an expert lecture on “**Production Management, Time Management in Production Lines, Crompton Production and Installation, Project Management, Instrumentation Transformers, CT and PT installations.**”
- On 15<sup>th</sup> Sept 2022, a “**Quiz Competition**” was held in commemoration of **Engineers’ Day**. On this day, 42 new student members were inducted into Polytechnic.
- **Shri Madhukar Dube**, T & P Head GGSE, Ex-Siemens Project Manager, gave an expert lecture on “**Interview Preparations, Types of Questions in Interviews, Campus Placement Overview, Companies in Campus Placement, Pool Campus Placements, Resume Writing, Do’s and Don’ts in Resume Writing**” on 16<sup>th</sup> Sept 2022
- This year, the IETE Nashik Sub-Centre was awarded second place for best sub-centre at AIC held at Hyderabad on 25<sup>th</sup> Sept 2022.

## NOIDA

- **Prof (Dr) PB Sharma** Vice Chancellor, Amity University, Gurgaon and President, IETE **Prof V Gunasekhar Reddy** launched ‘**Short-Term Certificate Course on Cyber Security, Ethical Hacking, Leadership Development, Solar Installation and Solar Energy Entrepreneurship**’ on 6<sup>th</sup> August 2022 in association with Gautam Buddha University, in presence of IETE GC members and Chairman and EC members of Noida Centre. Others who graced the occasion were: **Wg Cdr (Prof) P Prabhakar**, President IETE; **Prof (Dr) Nishakant Ojha**, Chief Strategy Officer, BECIL; **Dr Sunil**, Additional DG, Prasar Bharati; **Col (Dr) Bipin Pandey**, Chairman, Noida Centre; **Prof (Dr) Sanjay Sharma**, Dean School of ICT, Gautam Buddha University and **Shri Raman Kumar**, Hony Secretary, Noida Centre.
- **Shri GP Singh**, Senior Corporate Member IETE Noida Centre spoke on ‘**Awareness Seminar during International Space Week**’ on 7<sup>th</sup> Oct 2022.
- Proposal of **One Year Post Graduate Program on Cyber Security** to be conducted jointly by Noida Centre, School of ICT Gautama Buddha University and Galgotias College of Engineering and Technology was approved by Vice Chancellor Gautama Buddha University on 21<sup>st</sup> Oct 2022. The first session of the programme is likely to commence from 01 Mar 2023. Efforts of **Col (Dr) Bipin Pandey**, Chairman Noida Centre and **Prof (Dr) Lakshmanan**, HoD EC Galgotias College of Engineering and Technology and Fellow IETE and EC Member of Noida Centre, bore

fruit.

- 74 ISF student members; 14 corporate members attended the 69<sup>th</sup> Foundation Day of IETE. Five members from Noida Centre were felicitated: **Col PK Sharma, Col Mahesh Khara, Lt Col DC Tiwari, Shri GP Singh** and **Col Sarin**.
- **Dr V Gunasekhar Reddy**, President IETE visited IETE Noida Centre along with **Prof(Dr) Jaya Sankar** and **Dr Baswaraj Gadge** and **Gp Capt Sompal Singh**, Secretary General IETE on 4<sup>th</sup> Nov 2022. A presentation was given to the President by **Col (Dr) Bipin Pandey**, Chairman IETE Noida Centre about the programs of the Centre, annual plan of activities and the status of Noida Centre building.
- Talk on ‘**Cyber Fraud and prevention for senior citizens**’, held on 16<sup>th</sup> Nov 2022.

## PILANI

- The Centre organized an **invited lecture** by **Dr SN Joshi**, ex-chief scientist, CSIR-CEERI Pilani on ‘**Earlier era of microwave tubes in CSIR CEERI**’ on 30<sup>th</sup> Sept 2022. **Dr Krisna Meel**, Secretary Pilani Centre delivered the welcome address. **Dr Chandrashekhar**, Chairman Pilani Centre presented a memento to invited speaker.
- **Dr Virendra Singh Nirban**, Assoc Professor, Humanities department, BITS Pilani delivered invited talk as part of **IETE Foundation Day** celebrations in association with ISF BKBIET on 12<sup>th</sup> Nov 2022. **Dr Chandrashekhar**, Chairman Pilani Centre and **Dr SM Prasanna** presented a memento to invited speaker.



## PUNE

- The Centre celebrated “**Azadi ka Amrit Mahotsav**” in observance of the auspicious 75<sup>th</sup> anniversary of Independence from 10<sup>th</sup> Aug to 15<sup>th</sup> Aug 2022. On such occasion, a variety of events were organised. **Dr Vidyadhar Giri** led an expert discussion on “**Medicine-less Life**” on 10<sup>th</sup> Aug 2022. He gave a brief overview of the many methods for keeping medications away, how to take a diet, and the significance of ayurveda in human life. **Shri Rajendra Singh Rajput** presented a lecture titled “**Skill Development Program on Laptop Trouble Shooting**” on 11<sup>th</sup> Aug 2022. He explained the numerous laptop issues that can occur and how to fix them. He also offered a number of solutions for resolving laptop-related issues. On 13<sup>th</sup> Aug 2022, a guest from Prajapita Bhrumha Kumari Inshvariya VishvVidyalay, Mukundnagar, Pune, gave a lecture on “**Adhyatmik Raksha-Bhandhan.**” She provided background information about Raksha Bandhan’s history, significance, adhyatmik viewpoint, how to avoid negative thinking, and the value of meditation

in her speech. Several IETE members from various locations actively engaged in planting trees on 14<sup>th</sup> Aug 2022. **Dr D S Mani** and **Capt Harsh Khushal**, two notable individuals in the group, gave a talk on “**Looking Back at my Own Diary-Rewind 75**” on 15<sup>th</sup> Aug 2022. They shared their experiences and looked back on their 75-year journey.



### PALAKKAD

**Dr N Leena**, EC Member inaugurated the function to mark **IETE Foundation Day** by holding hands-on workshop on ‘**Basics of Arduino to IoT**’ on 25<sup>th</sup> & 26<sup>th</sup> Nov 2022 in association with Department of EEE of NSS College of Engineering, Palakkad. The session was handled by **Shri P Suresh**, Hony Treasurer Assistant Professor, Al-Ameen College of Engineering. Dr Leena read out the President’s Message. Student coordinator, Ms Malavika proposed vote of thanks.



### RAJKOT

● The Rajkot Centre, in collaboration with the Dept of ECE, the VVP Engineering College (an IETE ORG member), the Dept of Science and Technology Govt of Gujarat (DSI), and the Gurjarat Council on Science and Technology (GUJCOST), organised a National Level Online (STTP) short term training programme on “**Latest Trends in Remote Sensing & GIS**” during 25<sup>th</sup> - 29<sup>th</sup> July 2022. Gujarat Council on Science and Technology (GUJCOST), the Govt of Gujarat, sponsored the event. Eight distinguished experts, well-known and accomplished scientists presented expert sessions in STTP: **Dr Sanjay Jain & Dr Vishal Singh**, from National Institute of Hydrology, Roorkee, Uttarkhand; **Dr Kshama Gupta** Dehradun, Institute for Meteorology and Climate Research - Atmospheric Environmental Research (IMK-IFU); **Dr Ankita Saxena**, KIT, Germany; Professor from Malaviya National Institute of Technology, **Dr Mahesh Kumar Jat**; from Kurukshetra University; **Dr Bhagwansingh Chaudhary**; from Shaheed Bhagat Singh College, University of Delhi, **Dr Poonam Sharma**; and Asstt

Prof from Deenbandhu Chotturam University of Science & Technology, Murthal, **Dr Manoj Panwar**. **Dr Jayesh V Deskar**, Principal of VVP Engineering College, also gave a motivational speeches on life skills. There were over 147 registrations from all throughout India. Dr Vishal D Nimavat, EC member Rajkot Centre, and Ms Sheron H Christy, Dept of Electronics & Communication VVP Engg College, Rajkot, served as its coordinators.

● On 21<sup>st</sup> Nov 2022, the Rajkot Centre of IETE commemorated the **69<sup>th</sup> anniversary of the organization’s founding** in conjunction with the Department of Computer Science at Saurashtra University Rajkot. A technical symposium was held on the topic “**NEP 2020: A Paradigm Shift in Skill Based Higher Education: Challenges and Opportunities**,” chosen by the IETE Hqs. The Chief Guest, **Prof (Dr) Kishor G Maradia**, Principal of Government Engineering College in Rajkot and former Chairman of the IETE in Ahmedabad, gave an opening address on the day’s theme. **Dr R Sridaran**, Dean of the Faculty of Computer Applications at Marwadi University in Rajkot and former chairman of the Computer Society of India in Rajkot, and **Prof (Dr) Vikas Arora**, Director of the Integrated Campus at the Sunshine Group of Institutions in Rajkot, delivered the keynote addresses. The guests were felicitated. **Prof (Dr) C K Kumbharana**, HoD, CS Dept at Saurashtra University in Rajkot, also addressed the audience. **Prof (Dr) Atul M Gonsai**, Chairman of the IETE Rajkot Centre, spoke at length about the organization’s origins and subsequent growth.



### SIVAKASI

IETE Sivakasi Centre observed the **69<sup>th</sup> IETE Foundation Day** at the Mepco Schlenk Engineering College Campus in Sivakasi on 2<sup>nd</sup> Nov 2022. The gathering was welcomed by **Dr M Davidson KamlaDhas**, Centre Hony Secy. Approximately 50 IETE corporate members attended the session. **Dr S Anand**, Centre Chairman, read the message from the President of IETE Hqs, New Delhi. **Dr J Senthil Kumar**, ISF Coordinator, introduced **Dr G Balamurugan**, Director of Management Studies at the Mepco School of Management Studies, who talked on “**NEP 2020: A Paradigm Shift in Skill-Based Higher Education: Challenges and Opportunities**.” He talked about various components of the National Educational Policy (NEP), including Innovative and Flexible Education, School Education, Higher Education, Professional Education, and Adult Education. As the topic was Higher Education, the speaker went into detail about things like setting up multidisciplinary universities and colleges, setting up a multidisciplinary undergraduate programme, setting up the National Research Foundation (NRF) to help universities develop a culture of research, focusing on institutional restructuring and consolidation, moving toward a more holistic and

multidisciplinary education, and setting up the National Research Foundation (NRF). He also said that NEP 2020 paves the way for a single overarching regulator for higher education. This regulator, called the Higher Education Commission of India (HECI), will replace the UGC and the AICTE.

The ISFs that have the most Student Members enrolled during the academic year 2021-2022 were given the Award of Achievement. The **Highest ISF membership award** went to the ISF at the **Mepco Schlenk Engineering College in Sivakasi**. ISF of **PSR Engineering College Sevalpatti** had the **second-highest ISF membership award**. The awards for the most ISF memberships were given out by **Dr R Shantha Selva Kumari**, past chairperson of the IETE Sivakasi Centre. The vote of thanks was proposed by **Dr S Selva Nidhyananthan**, Hony Treasurer, IETE Sivakasi Centre.



## TIRUPATI

- **Ms Akshita Bahuguna**, Eduprenuer, Founder Director, Future Icons, New Delhi, was resource person for seminar on **‘Entrepreneurship vs Start-up and How to Plan to Initiate Start-up’**, held in association with Sri Padmavati Mahila Visvavidyalayam (SPMVV), Tirupati on 18<sup>th</sup> July 2022. **Prof S Jyothi**, Chairman and **Prof T Ramashri**, Hony Secretary, Tirupati Centre were Convenor and Co-convenor, respectively.

- **Shri K Hemachandra Reddy**, Chairman, Andhra Pradesh State Council of Higher Education was Chief Guest and **Prof Jamuna Duvvuru**, Hon’ble Vice Chancellor was guest of honour at **Engineers’ Day** celebrations held on 15<sup>th</sup> Sept 2022 on theme: **‘Education Policy 2020: Engineering Education- The Road Ahead’**, organised by School of Engineering and Technology, (SPMVV). **Dr BV Subba Rao**, Scientist, SDSC SHAR, Sriharikota; **Prof I V Ramana Reddy**, Dept of Civil Engineering, SVUCE, Tirupati; **Shri P V Sessa Reddy**, GM, TTD Transport Division; **Prof V Saritha**, Dept of CSE, SoET, SPMVV were invited as speakers. **Prof DM Mamatha**, Registrar, SPMVV, **Prof A Rama Krishna Rao**, Director SoET, SPMVV, **Prof S Jyothi**, Chairperson, **Prof T Ramashri**, Hony secretary Tirupati Centre, participated.



## TRIVANDRUM

The **69<sup>th</sup> IETE Foundation Day** was celebrated on 2<sup>nd</sup> Nov 2022, by the

IETE Trivandrum Centre and the IETE Students Forum at the St Thomas Institute of Science and Technology in Kazhakoottam. The welcome speech was given by **Dr Geenu Paul**, HoD, ECE Dept. Principal of STIST, **Dr A G Mathew**, gave the presidential address. In his speech, he talked about how, according to NEP 2020, students need to learn new skills. The IETE President’s Message was read by **Dr K Gopakumar**, the IQAC Coordinator for APJAKTU and the Chairman IETE Trivandrum Centre. The chief guest was introduced by **Dr Vijayakumar**, Hony Secretary of the Centre. **Dr Gabriel Simon Thattil**, Director, IQAC at the University of Kerala, gave his talk on the topic **“NEP 2020: A Paradigm Shift in Skill-Based Higher Education: Challenges and Opportunities.”** In the talk, he brought up the following points. **i.** No hard divisions between the arts and sciences, between schoolwork and extracurricular activities, and between vocational and academic streams; **ii.** Equitable and inclusive education, with a focus on socially and economically disadvantaged groups (SEDGs); **iii.** Increasing GER in higher education to 50%; **iv.** Holistic multidisciplinary education with multiple entry and exit points; **v.** Establishment of Academic Bank of Credit; **vi.** Expansion of open and distance learning to increase GER; **vii.** Internationalization of Education. **viii.** Education to be an important part of the system for higher education. Stand-alone technical universities, universities of health sciences, universities of law, universities of agriculture, or institutions in these or other fields will try to become multi-disciplinary. **ix.** Creating an independent body called the National Educational Technology Forum (NETF) to give people a place to talk freely about how to use technology to improve learning, testing, planning, and administration. All levels of education should use technology in the right way. **x.** Getting all young people and adults to be literate. **xi.** Strengthening the Central Advisory Board of Education to make sure that everything is coordinated and that quality education is the main focus. **Dr Pradeep**, the Hony Treasurer, gave the memento to the chief guest. ISF Coordinator **Mrs Preethi Elizabeth Iype** gave the vote of thanks.



## VADODARA

- IETE Vadodara Centre commemorated its **69<sup>th</sup> Foundation Day** on 31<sup>st</sup> Oct 2022, at Vraj Siddhi Tower. **Shri Yashpal Goyal**, Chairman; **Shri Naresh Kumar**, Permanent Invitee; **Dr Sorum Kotia**, Immediate Past Hony Secretary; **Shri R P Gupta**, Member; **Prof Sunil M Patel**, Member; **Prof Manisha V Mayavanshi**, Member; **Shri Dhaval Shah**, were some of the notables present on the occasion. Two ISF representatives from ISF chapter at Govt Polytechnic ChotaUdepur, namely **Shri Bhargav Kumar Chokshi** and **Shri Daxesh Limbachiya**, also attended.

The session began with a statement from the President of IETE, New Delhi, presented by **Shri Yashpal Goyal**, Chairman of Vadodara Centre. **Dr Sorum Kotia**, Head of EE Dept at MS University, Vadodara, was the guest speaker. Dr Kotia discussed **“NEP 2020: A Paradigm Shift**

### in Skill-Based Higher Education: Challenges and Opportunities.”

The new education policy's VUCA-Volatility, Uncertainty, Complexity, and Ambiguity-business model, was taken up for discussion. She also discussed the MERU in higher education and research. She went into great detail on the Choice Based Credit System (CBCS) and the Academic Progressive Index. A memento was presented to the guest speaker Dr Sorum Kotia by our past Chairman, Shri Naresh Kumar. Everyone praised the IETE Vadodara Centre's 69<sup>th</sup> Foundation Day celebration of the Institution on the day. Post-event refreshments were offered.



### VIJAYAWADA

- The Centre held two Executive Committee meetings on 23<sup>rd</sup> July and 17<sup>th</sup> Sept 2022.
- On 2<sup>nd</sup> Nov 2022, the Centre, in conjunction with the ISF of the ECE Department at VR Siddhartha Engineering College in Kanuru, Vijayawada, celebrated the 69<sup>th</sup> IETE Foundation Day. The President's Message was read by the Centre's Honorary Secretary, **Dr Sujith Kalluri**. The Chairman of the Centre, **Dr B Rajasekhar**, outlined the technical events/programs organised by the Centre and the ISFs formed at various engineering colleges. During this event, Senior Fellow Members **Prof SRK Paramahansa** (F-119766) and **Dr GVSNRV Prasad** (F-134118) were honoured. **Dr M Kamaraju**, Past Chairman of Centre, released the Newsletter for the first quarter (Vol. 1, July to September 2022). The event was attended by the Past Chairman, Executive, and Corporate Members of IETE, as well as the ISFs Coordinators and student members from various engineering colleges. **Dr B Surya Prasad Rao** offered the vote of thanks.



### YAVATMAL

- IETE Yavatmal Sub-Centre in association with SAVE Club of Jawaharlal Darda Institute of Engineering and Technology (JDIET) Yavatmal, organized an expert lecture by **Shri Sumedh Awathare**, Director, Pragma Engineers, Pune, on the topic: 'Professional Course Certification', 'Internships', 'Engineering Fundamentals' & 'Final Year Project Mentorship' on 22<sup>nd</sup> Aug 2022.
- The Sub-Centre organized 'Circuit Design Competition' on the occasion of Engineers' Day on 15<sup>th</sup> Sept 2022 in association with ENTC & EE Dept, JDIET. **Prof UW Kaware**, JDIET and **Prof Sandhya Kambale** from Govt Polytechnic, Yavatmal adjudged.
- An expert lecture was organized on 'Industrial Automation – PLC & SCADA' by **Shri Pranav Mehar**, Prolific Systems and Technologies Pvt. Ltd on 22<sup>nd</sup> Sept 2022 in association with ETA Club of ENTC Dept and SAVE Club, JDIET.



## News From Professional Activity Centre

### PAC at AISSMSCOE, Pune inaugurated

**Prof (Wg Cdr) P Prabhakar (Veteran)**, President IETE was Chief Guest for inauguration function of Professional Activity Centre on 16<sup>th</sup> Sep 2022 at Electronics and Telecommunication Engg Dept at **All India Shri Shivaji Memorial Society's College of Engineering, Pune (AISSMS College of Engg)**. **Shri S P Shinde** delivered the welcome address. It was followed by inauguration of Professional Activity Centre formally by all dignitaries. **Dr DS Bormane**, Principal, AISSMS College of Engg, Pune, in his address, remarked about rich culture of AISSMS COE established by **Shree Shahu Maharaj**. He also gave brief details on various branches of AISSMS COE, Research Centres, clubs, NSS, Hackathon, Unnat Bharat Abhiyan, ISTE, IETE Chapters, various clubs of mechanical such as BAHA, SUPRA etc. **Shri SP Shinde**, joint secretary addressed the gathering. **Prof (Wg Cdr) P Prabhakar**, elucidated how strong management can create a powerful and well equipped college and pointed out that students and faculties should work on innovation and solutions now-a-days. He concluded his talk with importance of entrepreneurship. The event was co-ordinated by **Prof Nitin P Mawale** and **Prof SB Dhekale**. The anchoring was done by Prof VS Navale. Dr SB Dhonde, HOD E&TC proposed vote of thanks.



### PAC at Nagercoil Trivandrum

- The Professional Activity Centre at Nagercoil, Trivandrum conducted a workshop on IoT using NODEMCU in association with the Institution of Engineers (India), Kanyakumari Local Centre at Riyasaa Labs on 7<sup>th</sup> Oct 2022. The main topics which were covered were IoT and its applications, Software and Sensor Technologies, Cloud Technologies, how to build and deploy IoT. The workshop was inaugurated by **Er S Natarajan**, Hony Secretary, IEI Kanyakumari Local Centre. **Dr S Arumnuga Perumal**, Chairman, IETE Nagercoil PAC explained in detail about IoT, Software and Sensor Technologies and Cloud Technologies. **Shri S Sethuramalingam**, **Shri S Narasimma Subramanian** and **Shri K Vivekananth** IoT Engineers, handled the technical sessions, followed by hands-on-practice session. **Dr S Arumuga Perumal** delivered valedictory address.
- **Shri Rajiv Subramoniyam** was the keynote speaker at IETE Foundation Day cum Seminar on 'Campus to Corporate Shift' conducted on 25<sup>th</sup> Nov 2022 in association with IET Kanyakumari Local Network and IEI KKLK. **Prof D Judson**, Treasurer, IET Kanyakumari Local Network introduced the Speaker. **Dr S Arumuga Perumal**, Chairman, IEI Kanyakumari Local Centre and IETE Chairman Nagercoil PAC welcomed the participants. **Dr M Marsaline Beno**, Jt Secretary, IEI Kanyakumari Local Centre, delivered vote of thanks.





## Awards & Achievements

**Shri Sunil (F-224760)** President of the Broadcast Engineering Society of India and Governing Council Member of IETE; Additional Dir Gen (Global Outreach) and Head of International Relations, All India Radio, Prasar Bharati, was elected as one of the Vice-Presidents of Asia-Pacific Broadcasting Union (ABU) on 30 Nov 2022 at their General Assembly Meeting in New Delhi, to steer ABU's activities for the next three years.



**Achievement Award"** from Dr Budda Chandrasekar, Chief Coordinating Officer, AICTE, New Delhi, in recognition of his contributions to the Research and Education Sector. On Dec 4, 2022, an award ceremony was held at Osmania University in Hyderabad. Bharat Education Excellence Awards was hosted by Brain 'O' Vision.



**Dr Baswaraj Gadgay (F-170125)** has been awarded Sri Dr Channabasava Pattadevaru Award for the year 2022 for 29 years of contribution to the field of Technical Education in Kalyan Karnataka Region (North Karnataka).



**Prof (Dr) Ajay P Thakare (F-121223)** has been elected for the next five years (w.e.f. 1<sup>st</sup> Sept 2022) to the position of "Member-Board of Studies" in the Electronics and Telecommunication Engineering Board of the Sant Gadge Baba Amravati University, Amravati".

**Prof (Dr) K Jaya Sankar (F-174479)** joined Methodist College of Engineering & Technology Hyderabad on 28<sup>th</sup> Nov 2022 as Professor, Dept of ECE, and Dean (R&D). Recently, he won the "Lifetime

**Prof (Dr) Atul M Gonsai (F-201885)**, Chairman of the IETE Rajkot Centre, registered and received approval for two patents: A System and Method to Improve XRAY Image Analysis, published in Indian Patent office journal on 1<sup>st</sup> July 2022. A System and Apparatus for Malicious web Traffic Discrimination Utilizing a Deep Learning Approach, published in the Indian Patent Office journal on 29<sup>th</sup> July 2022.

## IETE Organisational Member Activity

**IETE Org Member VVP Engineering College, Rajkot (G00374)** in collaboration with the IETE Rajkot Centre, hosted a workshop titled "Climate Change is Real, Knowing the Unknown" on the occasion of Engineers' Day on 15<sup>th</sup> Sept 2022. It was funded by the Animal Climate and Healthsave Foundation, Canada, and Plant-based Trity. The purpose of the workshop was to educate pupils about the increasing climate change caused by animal agriculture and the widespread usage of items obtained from animals. The programme was supported by world vegan vision, an organisation with similar objectives to animal save India.

## AN UPDATE

**Prof (Dr) V Gunasekhar Reddy, President of IETE**, persuaded the following members to withdraw long-pending legal cases at IETE headquarters.



We are pleased to inform you that the members listed below have accepted our proposal to withdraw their cases.

**Dr S K Aggarwal**, withdrew his case on 13 Nov 2022.

**Shri Anil Kumar Sharma**, withdrew his case on 14 Nov 2022.



## IETE Students' Forum (ISFs) Activities

- ISF at Stanley College of Engineering & Technology for Women (SCETW) (Autonomous), Hyderabad** conducted number of events. It organised KALPANA 2021, a state level student competition during 54<sup>th</sup> Engineers' Day celebrations on **Sept 15, 2021**. Events were conducted for the students and winners were awarded in three distinct categories such as Quiz, Crossword Puzzle and Essay Writing. The session was followed with an invited talk for students by Dr K Seetha Ram Babu, Rep Org Member on "The role of Women Engineers in Atmanirbahar Bharat". ISF in association with IETE Hyderabad Centre organised 36 hours internship program for students on **Nov 22, 2021**. The resource persons were Shri TharunSree Ram, Application Developer and Shri P Rohith Goud, Senior Application Engineer. The initial introduction to the

workshop was given by Prof A Gopala Sharma, HoD ECE. He also briefed upon tool-based concepts and the importance of the hand on sessions that students should have in their engineering career. Next day session (36 hrs event) started with a detailed presentation by Shri P Rohith Goud, Senior Application Engineer, regarding the various application components involved in the future sessions to come. The participants were presented with certificates of attendance and participation.

- ISF at Dept ECE, PSR Engineering College, Sivakasi**, organised the following series of events: Dr R Shantha Selva Kumari led a webinar titled "Trends in Signal Processing" on **Jan 27, 2022** for the purpose of boosting the technical understanding of students in the field of Signal Processing. She taught the basics of Digital

Signal Processing and Applications as well as signal processing transformation techniques. She discussed convolutional neural networks, deep learning, and image classification using deep learning. Attendance at the webinar was 120 students. On **Mar 24 and 25, 2022**, the ISF hosted a “Design Thinking” workshop for second-year students. Dr R Meena Prakash, the resource person, explained the Design Thinking phases of Empathy, Define, Ideate, Prototype, and Test. She also explained the practical uses of Design Thinking using Internet of Things technology. 120 students were present at the programme. IV year students participated in an Industrial Seminar with an International Perspective on “Career Road Map for Graduates and Opportunities in Data Intelligence & LST” on **June 13, 2022**. In this seminar, Shri Rajarajan Arumugan, CCPA Lead at Entergy, USA, instructed students on how to improve their communications skills and domain knowledge in order to acquire the competences necessary to execute a specific job. In addition, he discussed the advantages of strengthening these abilities in order to build a professional network, improve communication, time management, and negotiation techniques. The topic of the workshop on **July 20, 2022** was “Intelligence in Robots.” Shri E M Praveen Mathias, MD, MATT Automations was the keynote speaker. He discussed the many types of robots based on artificial intelligence, their applicability in various sectors, and the tools available for constructing intelligent robots. Students eagerly engaged in a demonstration session on robots such as pick-and-place robots. On this occasion, MATT Automations and P S R Engg College signed a Memorandum of Understanding for the expansion of the Robotics laboratory and the skill development of students. 120 students and 9 faculty members participated in the programme. The ISF hosted “Career Elevators” for third-year students on **Aug 4, 2022**. Dr J Lakshmi, Asst Prof & HoD, English Dept, Placement and Training Officer, University College of Engineering, Tindivanam, spoke at this session about the skill development necessary for students to be recruited by core companies on **Aug 08, 2022**. She described how to create an excellent presentation in front of the audience and provided essential elements to improve communication abilities. ISF organised a seminar titled “Incubation Opportunities for Students & Faculties - Early Stage Entrepreneurs” on the same day. The session’s keynote speaker, Er Jegan Chandran, CEO of Waxwing Group, discussed the advantages of being an entrepreneur and the available incubation possibilities for early-stage entrepreneurs. He talked with the students how to transform an innovative idea into a prototype, as well as how to create a market plan and business plan, and ultimately how to transform the prototype into a product. There were approximately 125 students and seven faculty members in attendance. From **Sept 08-10, 2022** there was a 3-day hands-on session. Dr K Subramanian, Technical Lead, Euthu Technology Solutions India Pvt Ltd, Coimbatore, taught faculty and students MATLAB programming for IOT applications utilising Arduino and Raspberry Pi boards. Participants developed IOT apps for Waveform Generation, Sensor Interfacing, Obstacle Detection, and Image Processing. ISF held a two-day workshop on AI-based robotics on **Sept 15-16, 2022**. Keynote speaker R Praveen Kumar discussed AI in robotics. He showed how to programme Raspberry Pi for colour and shape recognition, and for industrial process automation.

Workshop attendees numbered 120.

- **ISF at Nalla Malla Reddy Engineering College (NMREC), Hyderabad** organised a workshop on ‘Internet of Things’ on **Apr 8-9, 2022**. Faculty Coordinator: K Shivaprasad, Student coordinators: K Ankith, G Chinnari, K Saathvik & M Shreya. **The ISF** with ECE Students Association organised Workshop on ‘Getting Started with Arduino’ on **Apr 23, 2022**. Mrs PALNS Kalyani, Dean-Academics, St Marys Centenary Degree College was resource person for Webinar on ‘Entrepreneurship skills, Attitude and behaviour development’ on **May 14, 2022**, held by **ISF at NMREC, Hyderabad**. ECE Students Association organised Poster presentation to celebrate ‘Engineers Day’ on **Sept 15, 2022**. Faculty Coordinator: K Shivaprasad, Student coordinators: P Deepa, J Anuhya, K Nikhitha & Rishikesh. **ISF** organised a Guidance Program by Shri Kausik Agastyaraj on ‘Career Opportunities after Engineering’ on **Oct 19, 2022** in association with ECE Dept. Faculty Coordinator: K Shivaprasad. A Workshop on ‘Image Processing Using Python’ was arranged on **Oct 29, 2022** in association with ECE Dept. Faculty Coordinator: K Shivaprasad.
- **ISF at D Y Patil College of Engineering, (DYPCOE) Akurdi, Pune**, organised Project Exhibitions Synergism – 2022 on **May 27, 2022** in the presence of Dr P Malathi, Principal (I/C), DYPCOE, Akurdi, Pune, Dr Priya Charles (HOD E&TC), DYPIEMR, Dr BB Musmade (HOD Instrumentation & Control), DYPCOE, Akurdi, Smt Laxmiprabha, (Project coordinator), DYPIEMR, Akurdi, and Shri Kishor Bhargale (Project coordinator), PCCOE&R, Ravet. All invited specialists evaluated the student projects in fields such as Automation, Internet of Things, Robotics, Embedded System, Communication, Machine Learning, and Artificial Intelligence. Various eco-friendly projects were also displayed by students at the Exhibition. The assessment sheet for the project was created on the basis of fundamental knowledge, presentation and oral evaluation of programme outcomes and programme evaluation. Sixty-three students in all attended the project exhibition. To celebrate the 75<sup>th</sup> anniversary of India’s independence as “Azadi ka Amrit Mahotsav” on **Aug 15, 2022**, ISF organised a tree-planting campaign to safeguard the environment and promote sustainability. On this occasion, Dr P Malathi, Principal (I/C), DYPCOE, Akurdi, Pune, Dr SS Sarnobat, Vice Principal, DYPCOE, Akurdi, Dr D G Khairnar, DYPCOE, Akurdi, IETE Member, Pune Local Centre, Pune, Dr Rutuja Deshmukh, HOD E&TC, DYPCOE, Akurdi, Mrs Usha Jadhav ISF Coordinator, DYPCOE, Akurdi were present. On the occasion of World Mental Health Day, ISF organised an event “Jaagruti” on **Oct 10, 2022**. The Chief Guest on this occasion was Mrs Anagha Joshi, MA Psychology, and Masters in Personal Management. She emphasized about the importance of mental health – how health plays a significant role in human life, what is the difference between mental disorder and mental illness. The event was seminar based on awareness about the mental health where speaker explained about the importance on mental health. ISF organised an event “Electro Buzz” on **Oct 14, 2022**. The event was an electrical and electronics-based quiz competition. In his remarks, the Chief Guest, Dr D G Bhalke, Secretary of IETE Pune, highlighted the remarkable contributions of Dr APJ Abdul Kalam

and emphasised the significance of electronics in daily life. There were a total of three rounds. The first round consisted of 40 multiple-choice questions (MCQs) on fundamental electronics and the life of Dr Kalam. In the initial round, 90 students competed in total. Forty contestants qualified for the second round, "Tricky Circuits," which consisted of two questions based on electrical and digital circuits. Ten contestants advanced to the third and final round of "components charades," in which they had to identify fundamental components. The top three winners were awarded prizes, and each participant received a certificate of participation.

- **ISF in the Department of Electrical Engineering, VVP Engineering College, Rajkot**, in conjunction with the Rajkot Centre, organised a variety of activities: department-level research paper presentations on **Jul 1, 2022**. Numerous students engaged actively and presented their research papers. Each participant was awarded a certificate. In cooperation with the Rajkot Centre, VVP Engineering College conducted a two-day faculty development workshop titled "Design Engineering" on **Jul 9-10, 2022**. Shri Kamarjitsingh Bihola, the inventor of the "Innodesk" design innovation service, was the keynote speaker at this event. ISF organised industrial visit at e-INFOCHIPS, Ahmedabad on **Aug 3, 2022**. On **Aug 5, 2022**, the ISF organised a skill Development programme titled "Electronics in Automobiles." Dr Charmy Patel, Dr Vishal D Nimavat, EC Member, Shri Manoj Chauhan coordinated the entire programme with the assistance of Head, Dr Paresh Dholakiya and Principal Dr Jayesh V Deshkar of V V P Engg College, Rajkot. The Women Development Cell of VVP Engineering College sponsored a programme for young women named "Self-Defense" on **Aug 24, 2022**. On **Aug 30, 2022**, the ISF organised a competition for writing department-level research papers. Numerous students participated actively and delivered high-quality and interesting research papers. Dr Paresh Dholakiya, Dr Charmy Patel, and Dr Vishal D Nimavat, Rajkot EC members and ISF Coordinator, judged the competition.
- **ISF at Dept of ECE, Aarupadai Veedu Institute of Technology, Paiyanoor, Chennai**, organised a National Conference on "Recent Emerging Science, Engineering & Advanced Research in Communication and Healthcare 2022" on **July 4, 2022**., 175 members attended the conference
- On **July 15, 2022**, the ISF at **Dnyanshree Institute of Engineering and Technology (DIET), Satara**, organised a "Matrix 22 - A Project Exhibition." On this occasion, Shri K H Shinde, CEO of Sai Gears in Satara, Chief Guest, encouraged the aspiring engineers to contribute quality to real-time applications. He spoke briefly about the current industrial skill requirements for students. The Principal, Dr A D Jadhav, and the Vice-Principal; Dr U R More, greeted and introduced the honorable judges from each department. During the event, 70 main and 13 minor projects were showcased. Students' Project Prototypes concentrating on real-world problems in blockchain, ML, IoT, VLSI, mechatronics, and embedded systems, structure, transportation construction management, environmental engineering, design and manufacturing, automation, and electrical machines. Power systems, renewable energy, and control systems drew the officials and students of the university. The students presented the functionality of their projects to the industrial experts (Judges) and guests. The first and second-placed groups were determined by the experts based on a number of evaluation criteria. Dr A D Jadhav praised the awardees and urged the aspiring engineers to give more to the nation through their ideas in the near future. In addition, he praised ISF volunteers for their active engagement and support in ensuring the seamless conduct of activities. Prof PM Pondkule, Faculty Coordinator of the Research and Innovation Quality Circle, delivered a vote of thanks to close the occasion. On **Aug 13, 2022** on the occasion of the 75<sup>th</sup> anniversary of India's independence, the ISF organised an activity titled "Article Writing Competition" under the event Azadi ka Amrit Mahotsav for students and faculty members. Participants were instructed to produce a maximum of 200-word articles on Indian History, Indian Saints, Indian Scripture, India Kingdom, India warriors, and India architectural (Monuments) and post them by **Aug 15, 2022**. Faculty and students engaged in the exercise. Dr Varsha Bhosale and Prof Pondkule dedicated their time to the success of the event. E-certificates were issued to all participants at the conclusion of the event.
- **ISF at Dept of ECE, Panimalar Institute of Technology, Chennai** organised number of activities that included quiz on "Code Run" and event on "Skyline" on **July 17, 2022**, organised event "Broadcast Quiztie" on **July 23, 2022**, attended by 15 members. Another event on "Babur Quiz" on occasion of National Tiger's Day was organised on **July 29, 2022**. On **July 29 & 30, 2022** ISF organised event "Try out series" attended by 15 members. On the occasion of International Friendship Day, ISF organised event "Friends" attended by 20 members on **July 30, 2022**. Webinar was organised on "TCS NQT preparation" by Shri Nama Gupta, Assistant System Engineer, Tata Consultancy Services on **Aug 9, 2022**. It was attended by 40 members. ISF organised a workshop on photoshop on **Aug 9, 2022**. The speaker on this occasion was Ms Sowmiya N, Design lead of IEEE PIT SB. On **Aug 12, 2022** ISF organised event "Spell Bee" focused on improving grammatical knowledge and pronunciation skills of the participants. It was attended by 35 members. ISF organised a guest lecture on "Innovative Bioinformatics Approaches to Develop Health Care Applications" by Dr M Karpagam, Prof (EIE), Hindustan College of Engineering and Technology, Coimbatore on **Aug 23, 2022** attended by 70 members. On **Sept 26, 2022** ISF organised "Esphere 1.0 Entrepreneurship Awareness and Idea Generation Camp" by Dr G S Mahalakshmi, Deputy Director, Centre for Entrepreneurship Development, Anna University which was attended by 125 members. On **Sept 27, 2022**, ISF organised "Bon Viveur" in which famous dishes of the states were displayed. 110 participants participated. A workshop on "Smartphone Troubleshooting" by Shri B Krishna Kumar MD, New Technology Mobile Service Training Institute, Coimbatore, was organized on **Sept 28-29, 2022**.
- **ISF at ECE Dept at MIT School of Engg, MIT Art, Design & Technology University, Pune**, in collaboration with IETE Pune Centre, hosted a webinar on "Sustainable Energy Goal – Electric Vehicle and Way Forward" on **July 29, 2022**. Shri Adwait Sawarkar, Senior Consultant to Commissioner, Social Welfare, Government of

Maharashtra, attended the occasion. Shri Adwait Sawarkar discussed sustainable energy in his presentation. Sustainable energy is obtained from resources that can support present operations without harming future generations' energy demands or climate. Renewable forms of sustainable energy, such as wind, solar, and hydro power, are among the most popular. He elaborated on the significance of renewable energy by noting that wind and solar energy produce zero carbon emissions, which can damage the atmosphere and contribute to global warming. It reduces the demand for fossil fuels, which actively contribute to climate change and environmental pollution. He continued by discussing the rise of Electric Vehicles in India. He then discussed the various sustainable energy projects he has managed with the Maharashtra government. Prof (Dr) D G Bhalke, Hony Secy, IETE Pune Centre, provided an overview of the IETE and the Pune Centre. Prof (Dr) V VShete, Chairman, Pune Centre, Prof (Dr) R D Kharadkar, Past Chairman of Centre, Prof (Dr) D G Bhalke, Hony Secy, and Prof (Dr) Dhananjay Upasani, Member, IETE Pune Centre, attended the webinar, which was highly participatory. Online webinars were hosted by MITADTU in conjunction with the IETE Pune Centre on **Nov 02, 2022** at the Department of ECE. The occasion was graced by Prof Dr Virendra Shete, Director, MITSOE, Chairman, IETE, Pune, and Chair, IEEE Edu Society. They were inspired and appreciative of the events offered by the ECE and ISF departments. They also encouraged the initiation of project-related activities and the faculty's attempts to organise all programmes. Prof Dr Upasani DE, EC member, IETE, Pune, and Er Girish Khilari, IEEE Chair, Pune Section, were also recognised. "AI applications in Healthcare and Future Technologies" was presented by Prof (Dr) Prachi Mukherji, Professor & Head, Dept of E & TC, Cummins College of Engineering, Pune; "Climate Change and Role of Weather Stations" was presented by Shri Shantanu Pendharkar, Owner, Aashay Measurements Pvt Ltd, Pune; and "Recent Trends in Wireless Technology" was presented by Ms Renuka Wekhandankar Sr Application Engineer, Keysight Technologies, Bengaluru, coordinated by Dr Shubhangi Joshi. Prof (Dr) Dhananjaya offered a vote of thanks.

- **ISF at Electrical Engg Dept at Government Polytechnic Chhotaudepur, (Vadodara)** in association with IETE Vadodara Centre organised "Making Best from Waste and Tree Plantation" on **Aug 1, 2022** to spread awareness about environment protection and utilize plastic waste. Students used their own and college plastic garbage for tree planting and solar energy models. Presented an environmental poster to faculty. Students were able to reuse waste, disseminate environmental awareness and present posters and communicate effectively as a result of the event. Faculty members Shri VH Ghanchi and Shri RM Kantharia coordinated. Shri SK Ganatra, I/c principal, P Chhotaudepur graced the occasion. On **Aug 6, 2022**, ISF, IETE Vadodara Centre, and EE Dept, Maharaja Sayaji Rao University of Baroda hosted a workshop on PLC applications. The event aimed to educate students about PLC and its industrial applications so they can face future industrial challenges. One-day training programme had three primary sessions. a) Basics of PLC and its Applications – Theory session where trainer discussed PLC and its applications with students b) Software simulations of different applications logic using ladder

programming - interactive session where students demonstrated various simulations and presented c) Software and hardware combinations tested by participants. Students were able to model PLC applications with software and check simulations with defined hardware. Shri Hiren M Patel & Hitesh Parmar, both Asstt Professors were resource persons. Dr Souram Kotia, HOD EE Dept, Dr Pramod Modi and Sunil Patel, EC members graced the occasion. On **Aug 17, 2022** ISF in collaboration with Vadodara Centre organised a technical event on poster making and presentation on "Various performance aspects of AC supply system" to spread awareness about the use of AC power supply and importance of energy conservation. Students utilized various web resources to make the posters of given topic and presented the posters in front of faculty members of department. Question Answer session was conducted at the end of each presentation. Shri VH Ghanchi & Shri RM Kantharia coordinated. Shri Manish Pandya, Director, Manish Engicorp Pvt Ltd was resource person for the event 'Latest Trends in Electric Traction and Control' held on **Aug 24, 2022**. A one-day technical visit to GSECL thermal power plant (coal-based) was organized on **Sept 14, 2022**. After a quick introduction and the plant's operation were discussed and demo models of thermal power plant elements were presented. Students explored the coal-based power plant, generating unit, and control room. Then toured the switch yard for producing transformers and equipment. Shri Mahamed Said Shaikh was resource person for Webinar on 'Procedure for Industrial Energy Audit', held on **Sept 21, 2022**. Shri Prashant Pandya, MD, Adaptive Engineering, VatvaAhmedabd was the resource person for event on 'AC Motors Industrial Drives' held on **Oct 12, 2022**. Shri Prashant Pandya, MD, Adaptive Engineering, Vatva Ahmedabad, delivered lecture on 'AC Motors Industrial Drives' on **Oct 14, 2022**, mentored by Shri RD Parmar, HOD. Shri SK Ganatra, principal graced the occasion. 'Webinar on Soft Skills and Strategy to Crack Interviews' held on **Oct 17, 2022** by Prayanshi Gandhi. A Technical Visit organized to 'Synchronics Electronics Pvt Ltd' on **Nov 12, 2022**. Neha Bhavsar, Proposal Engineer Artee Flow Controls Pvt Ltd, Vadoara was resource person for Webinar on 'Use of Transducers and sensors for Industrial Automation' held on **Nov 13, 2022**.

- **Ramco Institute of Technology (RIT), Rajapalayam, Tamil Nadu**, ECE Dept in association with ISF hosted an Anna University Value Added Course on 'IVA085 Design and Analysis of MOS Circuits' **Aug 1-6, 2022**. Dr A Azhagujaisudhan Pazhani, Assoc Prof; Shri S Vijayakumar, Asstt Prof; Ms G Subhashini, Asstt Prof, Shri A Ramesh Babu, Asstt Prof, Dr R Rajalakshmi, Asstt Prof, Ms V SrirengaNachiyar, Asstt Prof and Ms R Ramalakshmi, Asstt Prof, all of ECE Dept were resource persons. Shri S Jeevanantharaja, project/test management specialist, Honeywell, Madurai delivered a guest lecture under the aegis of RIT, ECE Dept and ISF on topic, 'Out of the Box Thinking' on **Sept 3, 2022**. Dr A Lakshmi, ASCP/ECE and Shri D Gopinath, AP/ECE coordinated. Association Chairman, Shri R Mahendraprakash welcomed the gathering and Association Secretary Shri S Lingesh proposed vote of thanks. The ECE Dept with ISF organized Project Expo to celebrate Engineers' day on **Sept 27, 2022**. The event was organized by Ms V Srirenga Nachiyar-AP (SG)/ECE and Ms L Krishnakumari, AP/ECE, Ramco Institute of Technology, Rajapalayam. Shri D Karthik Prabhu, AP (SG)/EEE &

Dr A Azhagu Jaisudhan Pazhani, ASCP/ECE acted as juries for the Project Expo and selected four best projects.

- **ISF of ECE Dept, Jeppiaar Institute of Technology, Chennai**, organised a non technical event “Estimate the cost” on **Aug 5, 2022**, attended by 40 members. On **Aug 11, 2022** ISF organised an event “Mind Power” which was attended by 30 members. On **Sept 2, 2022** ISF organised an event “Chemistry in Daily Life Technique” attended by 40 members. Another event was organised by ISF on “Find the Author” on **Sept 9, 2022**. The event was based on finding the correct author with their masterpiece work. A webinar on “Job Opportunities for engineers in private and public sector” was organised on **Sept 17, 2022** by Shri S Suriya Kumar, Power System Engineer. This event was attended by 40 members.
- **ISF of ECE Dept at SRM Valliammai Engg College, Kattankulathur, Chennai**, organised a seminar on “Innovations in AI for Electronics Engineers” on **Aug 8, 2022** by Dr B Ezhilavan, MD, VEI Technologies Pvt Ltd Chennai, attended by 65 members. On **Aug 18, 2022**, ISF at Medical Electronics dept organised an expert lecture on “Medical Equipment” by Dr Bandaru Ramakrishna, Asst Prof, SRM Institute of Science and Technology, Chennai, attended by 125 members. On **Sept 28, 2022**, ISF organised a seminar on “Free Space Fiber Optic Communication” by Dr C Rimmva, Madras Institute of Technology, Chennai.
- **ISF at S V Engineering College, Tirupati**, invited Dr S Jyothi as chief guest of the valedictory function of IETE student chapter on **Aug 08, 2022** to give a seminar on Technology Transfer. Around 150 students and 10 faculties have attended the event. On **Nov 21, 2022**, the **Dept of ECE at ISF SV College of Engineering in Tirupati** hosted a Department Association meeting and reviewed the student Forum (ISF) activities. IETE Tirupati Local Centre supported this occasion. Prof T Ramashri, Secy IETE Tirupati Centre, was the event’s honoured guest and she discussed the significance of ISF and encouraged participation in various events. HoD of ECE Prof D Sreenivasulu Reddy, Principal Dr N Sudhakar Reddy, and Prof Dr Chandrasekhar addressed on how to utilise the association platform and ISF. Dr M Suresh Kumar and Shri K Yuvaraj served as event coordinators.
- On **Aug 13, 2022**, Dr Hongdoo Kim, Prof, Dept of Advanced Material Engineering, Kyung Hee University, South Korea, delivered a Guest Lecture on “Bio Degradable PLLA based Piezoelectric Sensors for Various Applications” at **RMK Engineering College, Gummidipoondi, Taluk Kavaraipettai, Chennai**. On the same day, ISF organised a session on “Using Design Thinking to Innovate Socially” by Shri A Prabhu, Process Lead/ Manual Testing, TCS, Chennai. The session was attended by 213 members. Another guest lecture was organised on “Industrial Internet of Things, Challenges and Opportunities” on **Aug, 20 2022** by Dr Chokkalingam, Aravind, Program Director, Electrical and Electronics Engineering, Faculty of Innovation and Technology, Taylors University, Malaysia. The lecture was attended by 194 members. ISF organised industrial visits on a webinar-based tour of the facilities and interaction with industry representatives from **Aug 22-25, 2022** and **Sept 1, 2, 7, 9, and 10, 2022**. Shri M Ashok, Technical Lead, Advanced Driver Assistance Systems, Ficosa Automotive India, gave a guest lecture on “Computer Vision and Embedded Vision in Autonomous/ADAS Using AI in Automotive” on **Aug 27, 2022**. 154 members attended the lecture.
- **ISF at Dept of ECE, Sri Venkateswara College of Engineering, Sriperumbudur, Chennai**, organised valedictory ceremony function by Dr D Vijendra Babu, Hony Secretary, IETE Chennai Centre on **Aug 16, 2022**. The function was attended by 200 members.
- **ISF at Dept of ECE, SRM Institute of Science and Technology, Chennai**, organised one day workshop “RDBMS with hands on” by Shri N Manikandan, Project Manager, Kerryindeev Logistics Pvt Ltd, Chennai on **Aug 17, 2022**. The workshop was attended by 70 members. ISF organised “Telemedicine – Bridging the Divide” on **Sept 20, 2022**. The Chief Guest of the function was Dr V Thulasi Bai, Chairperson, IETE Chennai Centre.
- The **ISF at Dept of ECE, V R Siddhartha Engineering College, Kanuru, Vijayawada**, in collaboration with the IETE Vijayawada Centre, organised a guest lecture on “Career Guidance” on **Aug 18, 2022**. The event’s main goal was to highlight career opportunities in the private and public sectors. Shri A Alex Vikas, ITS, ADG, Min of Communications, GoI, was the Chief Guest on this occasion. His presentation covered software, core, and UPSC opportunities. He shared his experience as an ITS in the telecom sector. He raised awareness for both the software and the UPSC exams.
- On **Aug 20, 2022**, the **E&TC Dept at SB Patil College of Engineering (SBPCOE), Pune** with ISF, conducted a one-day industrial visit to Aprton Tech Institute of Technology Old MIDC in Satara. The goal of this visit was for students to learn about the PCB manufacturing process and the software used in PCB design. Students learned how actual PCB manufacturing takes place in industries. As students theoretically studied, there are various steps present in PCB designing such as creating a schematic, design layout, etching, component placement, and drilling. The first step in manufacturing PCB, which is one of the most important parts of any electronic device or equipment such as a mobile phone, smartphone, laptop, or desktop computer, is Printed Circuit Board Design. Modern PCB design is done with highly specialised PCB design software. Galard Software was used to convert gerber files at Aprton Tech Institute of Technology. They demonstrated the PCB manufacturing process to students, which includes steps such as file-to-file printing, patterning or etching, photoengraving, lamination, drilling, solder plating (solder resist), silk screen, and testing. 43 students visited Aprton Tech Institute of Technology, along with staff.
- **ISF at Nutan Maharashtra Institute of Engineering and Technology (NMIET) Pune**, inaugurated a new session of IETE Student Forum (ISF) on **Aug 25, 2022**. The Chief Guest was Vice Chairman of the IETE Pune Centre, Prof Dr D S Mantri. In his speech, he discussed the ISF’s organisation of technical programmes, special lectures, workshops, seminars, symposia, and exhibitions for the benefit of students. ISF provides a forum for students to share their perspectives on technological topics of interest. He inspired students to join the ISF Committee. ISF

should serve as a catalyst for the overall growth of young students' technical and professional skills. Dr DS Mantri, Vice Chairman IETE Pune Centre; Prof Nishant Panchpor, Management Institute, Dr Lalit Kumar Wadhwa, Principal NMIET, IETE Member EC, Pune; Dr Vilas Deotare, Head of E&TC and IETE Member; and Dr Vinod Kimbhune, Head of COMP, were among the dignitaries. On this occasion, a poster design competition was held. On the same day, ISF hosted a poster-making contest. Dr Chandra Shivatkas, Professor COEP Pune, the Chief Guest inaugurated the competition for poster presentations. Students prepared 24 posters on a variety of topics for the competition, including Future of Manufacturing of ICs, Solutions for Future Energy Needs, Electric Vehicles: Scope and Limitations, 5G Technology: Scope and Limitations, and Start-up in Telecommunications and Technology after 10 Years in Education. The competition for designing posters was judged by Professors Manoj Kate, Sushma Bhosle, and Saurabh Saoji. From the competition, three winners were picked.

- The **E&CE Department of Navodaya Institute of Technology (NIT), Raichur, Hyderabad**, inaugurated a new ISF session and to mark the event an International Conference on “Electronics and Telecommunication for Real Time Applications” (IETRTA-2022) was organised on **Aug 25 and 26, 2022**. Dr M Baswaraj, founder chairman of IETE-Gulbarga and former vice president of IETE and ISTE in New Delhi, opened the event. Dr M V Mallikarjuna, the institute's principal, highlighted the institute's IETE-related activities. He reported that 106 students are IETE members at NIT-Raichur. The HOD-ECE and IETE coordinator, Dr K Venkatachalam, welcomed the guests. Prof Channaveeramma E, Department of ECE-NIT, and Associate Member of the IETE, introduced the Chief Guest. IETE membership certificates and identification cards were provided to NIT and IETE student members. Dr M Baswaraj, the event's chief guest, presented the institution's certificate to Dr M V Mallikarjuna and the IETE Associate membership certificates to Dr K Venkatachalam and Dr Channaveeramma E. Dr D Sri Ram Kumar from NIT-Tiruchirappalli delivered the keynote address, while Dr K Prabhu from NIT-Surathkal presided over the technical sessions. The conference was attended by a large number of within and outside participants. The event was attended by HODs, faculty members, non-teaching employees, and students from many departments.
- A new session at **ISF Mohamed Sathak A J College of Engineering, OMR Road, Chennai**, was inaugurated by Dr D Vijendra Babu, Vice Principal, Prof, ECE, AVIT & Hony Secretary, IETE Chennai Centre on **Aug 26, 2022**. The ISF also organised “Circuit Debugging” attended by 45 members on **Sept 5, 2022**.
- **ISF at ECE Dept, Rajalakshmi Engineering College, Chennai**, organised a two-day hands-on-training on “Signal Processing using MATLAB” by Shri P Vikram Kumar, Science Communicator on **Aug 26-27, 2022**. It was attended by 54 members.
- **ISF at RVR and JC College of Engineering, Chowdayaram, Guntur** in association with IETE Vijayawada Centre organised technical quiz for II/IV year BTech students on **Aug 26, 2022**. Around 104 students participated in the event. On the eve of Engineers' Day, ISF conducted paper presentation for the BTech ECE students on **Sept 15, 2022**.
- **ISF at Potti Sriramulu Chalavadi Mallikarjuna Rao of College of Engineering & Technology, Vijayawada** in association with IETE Vijayawada Centre conducted six day workshop on “PCB Designing and Analog IC Applications” from **Aug 29, 2022 to Sept 5, 2022**. The workshop was co-ordinated by Shri K Prabhu Kumar, Shri S K Chinna Baji and Shri T Sikhamani. On the eve of Engineers' Day, *i.e.*, on **Sept 15, 2022**, the ISF conducted paper presentation. Dr B Rajasekhar, Chairman IETE Vijayawada Centre judged the paper presentation.
- On **Aug 30, 2022**, Dr C Rajalakshmi, Assistant Prof of Computer Science at **Sri Sairam Institute of Technology, West Tambaram, Chennai**, organised “Awareness of Project Proposal” at the **ECE Dept of ISF**, which was attended by 30 people. Dr P Saravanan and Dr G Saravanan, Associate Professors of ECE, presented a session on “IETE Membership and Activities” on **Sept 26, 2022**.
- The **ISF at the ECE Department of St Joseph's College of Engineering in Chennai** organised the technical event “Brainbenders” on **Sept 2, 2022**. Three rounds comprised the competition: Frenzy, Technozap, and Colloquium. There were 174 attendees at the event.
- On **Sept 12, 2022**, Prof (Dr) Bhaskar Gupta, Jadavpur University, Kolkata, delivered a guest lecture and certificate distribution ceremony on “Antenna and Radiation Effects on Human Body, Plants, and Agricultural Products” at **Admas University's EEE Department**. During this event, students learned about EM radiation absorption by plants, fruits, agricultural products (such as rice and wheat), and the human body. SAR, Dielectric constant and its significance, loss tangent, and other key terms related to EM radiation were discussed with appropriate examples. More than 112 participants with engineering backgrounds attended the programme. The session also proposed a few solutions to reduce high EM radiation absorption by the human body, plants, and agricultural products. Prof (Dr) Joyonta Kumar Roy, former Chairman of the IETE Kolkata Centre, was the guest of honour on this occasion. The following segment of the programme saw the distribution of membership certificates to 19 new IETE ISF student members at Adamas University. Prof Bhaskar Gupta, Hony Chairman, IETE Kolkata Centre and Hony Dean, School of Engineering and Technology, Adamas University, Kolkata, presented the certificates to the students. There were 113 participants in the programme. Shri Jeet Banerjee, IETE ISF coordinator and programme convener, gave the closing remarks.
- **ISF at Dept of ECE, Chalapathi Institute of Technology (CIET), Mothadaka, Guntur** in cooperation with M/s Vishista Innovators Pvt Ltd, Guntur and IETE Vijayawada Centre organised two-day industry-oriented training on **Sept 12-13, 2022**. Shri K Sandeep Kumar and his team explained wireless modules for IoT applications. They taught hands-on IoT wireless module use. Dr P Balamuralikrishna, Dean R & D, Dr D Naga Ravikiran, HoD, Prof S Sree Chandra, ISF Co-ordinator, Prof A Lalitha, and Prof G Prasanthi coordinated the programme.

- **ISF at Dept of ECE, Lakireddy Bali Reddy College of Engineering, Mylavaram, Dist Krishna** in association with IETE Vijayawada Centre organised Poster Presentation on eve of Engineers' Day on **Sept 14, 2022**. 10 students participated with various topics in communication. Dr A Narendra Babu, Dr P Lachi Reddy, Dr G Srinivasulu and Dr G L N Murthy were judges for the event. HoD and all faculty members congratulated all student coordinators of IETE for organising the event.
- **ISF at Dhanekula Institute of Engineering & Technology (DIET), Ganguru, Vijayawada** in association with A1 Quantum Smart Solutions Pvt Ltd, Science & Technology Entrepreneur's Park (STEP), National Institute of Technology, Karnataka and IETE Vijayawada Centre celebrated Engineers' Day on **Sept 15, 2022**. On this occasion, Sri Tummala Ramakrishna, SDE (GMSE & SGSN), BSNL, Vijayawada delivered talk on "A Technical Seminar on Introduction to Mobile Communication and its migration to 5G". The objective of this seminar is to minimize the gap between industry and academia. The session created awareness on latest 5G technologies. HOD, IETE co-ordinator conveyed the importance of Engineers' day and how modern day engineer find solutions for the real world problems. Students actively participated in the lecture. ISF Dept thanked Dr Ravi Kadiyala Principal, Dean Academics Dr R Satya Prasad and HoD Dr M Vamshi Krishna, faculty and students. On **Sept 26, 2022** ISF conducted faculty development program on "Hands-On Deep Learning Architectures for Data Classification using Python". It was delivered by Chief Guest, Dr Ashvini Chaturvedi, Prof & HoD of ECE (STEP), Karnataka.
- **ISF at Tirumala Engineering College, Jonnalagadda, Narasaraopeta, Guntur** in association with IETE Vijayawada Centre celebrated Engineers' Day on **Sept 15, 2022**. On this occasion cultural program, technical quiz, project expo, poster presentation and technical task on circuit design were conducted. The winners were awarded with shields & certificates. Certificate of participation was also issued.
- **ISF at ECE Dept, Prasad V Potluri Siddhartha Institute of Technology (PVPSIT)** in association with IETE Vijayawada Centre conducted various events for B.Tech students on eve of Engineers' Day on **Sept 15, 2022**. The HOD, staff and students offered floral tributes to 1<sup>st</sup> Indian Civil Engineer Bharat Ratna Mokshagundam Visvesvaraya and conveyed the message of role of engineer in the society. Technical quiz, coding contest (C/python), technical paper presentation on emerging technologies, Circuitrix, jam on renowned scientists in ECE was conducted. 131 students participated in different events. Certificates were distributed to all the participants in the event.
- **ISF at ECE Dept, Anil Neerukonda Institute of Technology and Sciences (ANITS), Visakhapatnam**, in association with ANITS Communication Engineers Society (ACES) organised an invited talk on career guidance "VLSI Industry and Opportunities" on **Sept 16, 2022**. Shri Jakkampudi Sandeep, Physical Design Engineer in ADEPTCHIPS Pvt Ltd Company, also proud alumni of ECE Dept, delivered a talk on VLSI Industry requirements and its opportunities for ECE students. He illustrated on chip design basics and explained the importance of courses to reach the industry and shared his own interview experiences to motivate the budding engineers. The event was attended by 170 students. A two-day international Conference on Advancement in Electronic Systems and Communication Technologies (ICAESCT 2022) was held at **Nov 4-5, 2022** in hybrid mode, organized by the Dept of ECE and ANITS ISF, Anil Neerukonda Institute of Technology and Sciences (A). A total of 85 papers were received and 68 papers were accepted and presented. One paper was received from Bangladesh. The papers of the conference were published in the form of conference proceedings with ISBN number. Dr M Satya Prasad, Asstt GM, BSNL, Visakhapatnam, was the Chief Guest of the inaugural function. The inaugural program was held in the ECE Dept. seminar hall on Nov 4, 2022 with 7 sessions and 30 papers presented both online and offline. On the second day of the conference, Prof (Dr) Sandeep Singh Sengar, Cardiff Metropolitan University, Wales, UK, delivered a valuable keynote lecture on "Deep Learning and its role in Computer Vision."
- **ISF at ECE Dept, Easwari Engineering College, Ramapuram, Chennai**, organised a "Crunch Base"- Interdisciplinary innovative core model, to encourage young aspiring minds to develop entrepreneurial skills on **Sept 19, 2022**. It was attended by 130 members. On same day, ISF organised "INCEPTION 2k22". Chief Guest on this occasion was Dr M Sugunalakshmi, Senior Principal Scientist, CSIR, CLRI, attended by 90 members.
- New **ISF** was inaugurated at **PERI Institute of Technology Tambaram, Mannivakkam** on **Sept 19, 2022**. It was inaugurated by Dr D Vijendra Babu, Vice Principal, Professor, ECE, AVIT & Hony Secretary, IETE Chennai Centre.
- **ISF at ECE Dept, Muthayammal Engineering College (MCE), Rasipuram**, organised seminar on "MEMS Sensors for Biomedical Applications" on **Sept 19, 2022**, with the keynote speaker Dr Ravi Doraiswami, Chief Executive Officer, Wearable MEMS, Rasipuram. On **Sept 29, 2022**, ISF organised Alumni Interaction and Mentoring on "Role of Electronics Engineers in Cyber Security" conducted by Shri S Suresh, Cyber Security Analyst, Wipro, Chennai. **ISF** also organized following events: L Dhivakar, Programing Developer HCL, Bangalore delivered talk on 'How to become a smart IT worker' on **Oct 20, 2022**; M Raveendra, Radio Frequency Engineer, Rapid Tek Technology, New Taipei, Taiwan spoke on 'Broadband Monopole Whip Antennas for Long Distance Radio Applications using Genetic Algorithm Optimization' on **Oct 22, 2022**; Dr N Mohan Kumar, Professor, Dept of EEC, GITAM School of Technology, Bengaluru spoke on 'Advanced Semiconductor Devices for Future Applications' on **Oct 22, 2022**. Dr M Surendar Assistant Professor, National Institute of Technology Puducherry, Karaikal spoke on '5G and beyond Wireless Communications' on **Oct 28, 2022**.
- **ISF at ECE Dept, Dr MGR Educational and Research Institute, Chennai** organised 19<sup>th</sup> National Level Technical Symposium "KALAM 22" on **Sept 19-20, 2022**. Chief Guest of the occasion was Er ACS Arun Kumar, President, Dr MGR Educational and Research Institute, Padma Jyoti Dr GS Ayyappan, Senior Principal Scientist, CSIR, Chennai & Dr S Geethalakshmi, VC, Dr MGR Educational and Research Institute. The symposium was

attended by 250 members.

- New **ISF** was inaugurated at **ECE Dept, Budge Budge Institute of Technology (BBIT), Kolkata** on **Sept 21, 2022**. The Chief Guest, Prof (Dr) J K Mandal, Kalyani University, gave lecture on “Authentication through Invisible Communication” on this occasion. The event was also graced by Guest of Honour – Prof (Dr) Joyanta Kumar Roy, Chairman, Kolkata Centre, Prof (Dr) Bhabes Bhattacharya, DG Academics, BBIT, Prof (Dr) Narendra Nath Jana, Dean Academics, BBIT, Prof (Dr) Siladiyitya Bandyopadhyay, Dean Student’ Welfare, BBIT, Smt Kakali Sengupta Das, HoD ECE and Dr Sumanta Bhattacharyya, Cordinator ISF-BBIT. The ISF was set up with 35 student members from ECE department.
- On **Sept. 22, 2022**, **United College of Engineering and Research, (UCER) Allahabad**, opened a new ISF. A lecture and poster show was held. Prof (Dr) Ashish Khare, JK Institute, Allahabad University, inaugurated. He also spoke on “Challenges and Security in the Development of Intelligent Video Surveillance System”. An exhibition on “Emerging Trends in Engineering and Technology” followed. Prof HP Shukla, UCER’s principal, encouraged students to join ISF. Prof Nandita Pradhan, DSW welcomed attendees. Shri Vijit Srivastava gave thanks. Shivangi Agarwal organised the event. ISF student members received certificates of appreciation while poster exhibition winners received trophies and certificates.
- **ISF at VKR, VNB & AGK College of Engineering, Gudivada, Dist Krishna, Vijayawada**, in association with IETE Vijayawada Centre celebrated annual day on **Sept 22-23, 2022**. On this occasion, poster presentation, paper presentation, technical quiz and project expo were conducted. On **Sept 24, 2022**, ISF organised a guest lecture on “Carrier Opportunity in Electronics and Communication Engineering” by Dr B Rajasekhar, Chairman of the Centre.
- **ISF at Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru, Dist Krishna** in association with IETE Vijayawada Centre conducted two days student development program on “Recent Trends and Game Changing Applications in Drone Technology” on **Sept 23-24, 2022**.
- New **ISF** was inaugurated at **Dept of ECE, Ramachandra College of Engineering, Eluru**, on **Sept 27, 2022**. Dr B Rajasekhar, Chairman, Vijayawada Centre was Chief Guest on this occasion.
- **ISF** at ECE Dept, **Veltech High Tech Avadi, Chennai**, organised one day seminar on “Modeling and Controlling of Drones using MATLAB” by Dr G Rajkumar, Amrita Viswa Vidyapeetham, Vengal, Tiruvallur on **Sept 30, 2022**. It was attended by 125 members.
- **ISF at Mepco Schlenk Engineering College** organised a workshop on Raspberry Pi on **Sept 30, 2022**. Shri J Dani Reagan Vivek, Assistant Professor/ECE and Smt R Kamaladevi, Asst Prof gave a lecture on basics of Raspberry Pi. They explained the Raspberry Pi architecture, HAT, OS, interfacing methods & devise and various real-time applications. They also demonstrated about GPIO interfacing with LED’s and push buttons. Also, students underwent hands-on training on Raspberry Pi. Around 90 number of ISF members got benefited during the workshop. A Guest Lecture was organized on **Oct 14, 2022** by Shri CH Ravindar Reddy, Engineer Technical support – Mathworks on Modeling and Simulation of HEVs: MATLAB and Simulink. Prof R Shantha Selvakumari, HOD/ECE & President/ISF, Mepco Schlenk Engineering College, Sivakasi, graced the occasion.
- **ISF** at ECE Dept, **Veltech Multitech Dr Rangarajan Dr Sakunthala Engineering College, Awadi, Chennai** organised a guest lecture on “Digital Communication and RF Techniques” by Shri T Mariappan, Senior Engineer, Qualcomm India Pvt Ltd, Chennai on **Sept 30, 2022** attended by 84 members.
- **ISF at St Thomas Institute of Science & Technology, Thiruvananthapuram**, was inaugurated on **Sept 30, 2022**. The welcome speech was delivered by Dr Anju S, ISF Coordinator. The presidential address was delivered by Dr A G Mathew. The inauguration was done by Shri Raju Varughese, Deputy Director General, All India Radio and Doordarshan, Trivandrum. On this occasion, Dr Valsa B, Deputy Director (Former) VSSC, TVM delivered lecture on “Smart Engineering for a Better World”. The vote of thanks was delivered by Smt Preethi Elizabeth Iype. ISF Coordinator.
- **ISF at Anand International College of Engineering, Jaipur**, organised a seminar on “Industry V/s Engineers” in association with IETE Jaipur Centre and ISF, Anand-ICE Jaipur on **Oct 12, 2022**. The speaker of the seminar, Shri Shrey Sharma, CEO, Cyntexa shared views and told about engineering education, Industry requirement, required skills in engineering students for the industry to the students. The program was conducted under the guidance of Shri Vivek Bhojak, IETE Faculty Coordinator Students’ Chapter. A lecture was organized on “Engg Education: Expectation and Preparations” in association with IETE Centre on **Oct 14, 2022**. ISF and the International Telematic University, Uninettuno, Italy, jointly organized a two days 2<sup>nd</sup> (Hybrid) International Conference on “Orthogonal Polynomials, Special functions and Computer Algebra: Applications in Engineering” (OPSFCA-2022) in association during **Oct 15-16, 2022**. The Chief guest Prof Vinod Prakash Saxena, Ex-Vice-Chancellor, Jiwaji University, Gwalior and the Guest of Honour, Prof Clemente Cesarano, International Telematic University Uninettuno, Italy, shared their views and highlighted the importance of such conferences and the basics functions as applications in engineering to the participants. Hon’ble Vice-Chairperson of Institute Institute’s Principal Vice-Principal was also present on the occasion. Around 183 participants were present in the program. The Speaker Shri Puneet Mathur Mgr Learning & Development, Appcino Technologies Pvt Ltd. Jaipur, shared his views on the occasion. Smt Monika Mittal Agarwal, Hon’ble Vice Chairperson, Anand ICE, Jaipur was the chief guest at Technical Quiz “CONCOURS – 2022 held on **Nov 5, 2022**.
- A talk on “Pathway to VLSI Engineers” by Dr Nassir Arif, AMS Methodology Engineer at Intel Corporation Bengaluru was organized by ECE department as a part of ISF activity at **Sahyadri College of Engineering and Management, Mangaluru** for 3<sup>rd</sup> year and 4<sup>th</sup> year ECE students on **Oct 15, 2022**.
- The **ISF of ECE Dept of Amrita College of Engg & Technology, Nagercoil, Kanyakumari**, organized a one day hands-on training programme “Optical Communication System Design using Opti



System Simulation Software” on **Oct 29, 2022**. The participants were of final year BE ECE students and the ME Embedded Systems Technologies students. The resource person was Shri D Gnanakumar, Assistant Professor, ECE department.

- The **ISF at Dr Sudhir Chandra Sur Institute of Technology & Sports Complex** organized a one-day seminar on “Internet of Things in our Everyday Life” on **Nov 1, 2022**. Prof (Dr) Debashis De- Vice Chairman of IETE Kolkata Centre was the Chief Guest as well as Guest speaker along with other two Chief Guests- Prof (Dr) Jyotsna Kumar Mondal- Ex Chairman and Dr Aniruddha Nag -Secretary of IETE-Kolkata Centre.
- The 69<sup>th</sup> IETE Foundation Day and the start of the IETE Students Forum (ISF) at the **Dept of ECE in the School of Engineering at Mohan Babu University**, was held on **Nov 3, 2022**. The IETE Tirupati Local Centre helped make this event happen. Prof S Jyothi, from Padmavathi Mahila University and Chairman of IETE Tirupati Centre, and Prof T Ramshri, from S V University and IETE Tirupati Centre, were the main guests at the event. There are 271 students in the ISF at MBU. ISF is coordinated by Dr V Vijaya Kishore, a professor in the Dept of ECE. Prof S Jyothi spoke about “Innovation, Entrepreneurship, and Star-up” to the group. Prof T Ramashri gave an expert lecture on the theme of the 69<sup>th</sup> IETE Foundation Day, which was “NEP 2020: A paradigm shift in skill-based higher education: challenges and opportunities.” The speaker gave a detailed talk about the National Education Policy 2020 and all of its policies and opportunities. On Foundation Day, Shri Aravamuthan Venkataramani (Mem No. 097816) was honoured online because his health didn’t allow him to travel.
- On **Nov 11, 2022**, ISF held an orientation programme at the **CMR College of Engineering and Technology (CMRCET) in Hyderabad**. The invited guest speaker Prof Nuli Namassivaya, Chairman IETE Hyderabad Centre, talked about the scope and benefits of the IETE student forum. He stressed the importance of holding technical events, such as webinars, international guest lectures, and workshops, so

that people could learn about new technology. Principal-in-Charge of CMRCET, Dr G Devadas, gave a speech about how important professional memberships are. Prof ENV Purna Chandra Rao (HOD ECE, CMRCET) spoke to the group and told them about what the department does and how important it is for students to join IETE. Dr M Nagaraju Naik, FIETE and works in the ECE Dept at CMRCET, spoke to the group. This event was put together by Dr Shamsul Hassan, an IETE member and coordinator, and other IETE committee members. At this event, new ISF members were given membership certificates and ID cards from IETE. 477 students have signed up to be part of the CMRCET IETE student forum.

- **IETE Student Forum OUCE** was inaugurated on **Nov 23, 2022**, in the presence of chief guests Er Nuli Namassivaya, Chairman, IETE Hyderabad Centre and Er B Brahma Reddy, Chairman, IETI Telangana State Centre; Guest of honour Prof P Chandrashekar, Vice Principal, UCE, OU; Prof L Nirmala Devi, HOD, Dept of ECE, and Dr M Shyam Sunder, Asst Professor in the Dept of ECE and faculty Coordinator ISF OUCE. The Secretary, ISF, Dr R Sai Vineela gave an introductory speech about ISF OUCE and the motives behind starting ISF. Faculty coordinator, Dr M Shyam Sunder spoke about the role of student members in sustaining ISF and encouraged all the students to utilize the platform. HoD, Prof L Nirmala Devi spoke about the importance of student participation in professional societies and the association of the department with various societies. Guest of Honor, Prof P Chandrashekar highlighted his association with IETE and underlined the support provided by the college for various institutes and student clubs, and extended his congratulations on inaugurating ISF. Chief Guest Er Nuli Namassivaya enlightened students about IETE and how students can utilize the IETE Student Forum to the fullest. Chief Guest Er B Brahma Reddy spoke about the importance of innovation in electronics and motivated students to take up innovative projects in 3<sup>rd</sup> and 4<sup>th</sup> year of engineering. A total of 129 students attended the event. Membership certificates and ID cards were distributed to all. The guests were felicitated. S Ruthwik Reddy, Chair of ISF gave vote of thanks.

## OBITUARY



**Shri Hari Om Agrawal** (DF-040017L) past Governing Council Member and Distinguished Fellow passed away on 1<sup>st</sup> January 2023. A versatile dynamic personality, he was an active member of IETE for three decades who contributed significantly to IETE publications as Managing Editor. As a founder member, he was instrumental in starting Noida sub-centre and its upgradation as a full-fledged Centre. Having worked in AIR & Doordarshan, he retired as Chief Engineer (R&D). He served as Chief Investigator of IETE Coil NET Project for publication of books in Hindi. **IETE is deeply saddened by the loss.**



**Lt Gen JS Ahluwalia PVSM (Retd)**, (F-048343) left for heavenly abode on 4<sup>th</sup> November 2022. He was President, Institute of Directors and of the ‘World Environment Foundation’ (WEF). A post graduate in electronics engineering and MBA, he specialised in engineering support to army weapon systems. He had undergone extensive training in various manufacturing concerns in France, UK, USSR and Japan. He is an alumnus of the National Defence College, and College of Defence Management. He retired in Nov 1994, as the Chief Executive & Director General, of the ‘Corps of Electronics & Mechanical Engineers’ of the Indian Army. He was awarded Param Vishist Seva Medal, by the President of India, in January 1994. **May God give fortitude to his family to bear this irreparable loss. He will always be remembered fondly.**



**Shri V Appakutty** (F082715) past Governing Council Member, past President, IETE Chennai Centre and Chief Engineer, (Retd) AIR & Doordarshan, South Zone, Chennai passed away on 24<sup>th</sup> October 2022. He was a dynamic personality who worked for growth of IETE. He was associated with several organisations in Chennai and practiced as Advocate in High Court, Chennai He was also a Homeopathy Consultant. He has authored seven technical books and was a recipient of Indira Gandhi Sadbhavana Award. **Our deepest condolences to his family.**



## New IETE Members Enrolled/Upgraded during August 2022 to December 2022

S.N.	MEM	CAT	Name	S.N.	MEM	CAT	Name	S.N.	MEM	CAT	Name	S.N.	MEM	CAT	Name
1	503354	AM	Vaishnavi Chandrakant Thorat	43	500455	F	Dr Monika Mathur	85	503364	F	Dr Madhavi Mallam	127	157338	M	Mukesh Kumar Pawar
2	503390	AM	Sunil Dashrath Malvatkar	44	500456	F	Dr Praveen Kumar Jain	86	503365	F	Sanjeev Jain	128	197161	M	Sunil Yadav
3	503391	AM	Rajendrasing Pratapsing Rajput	45	500525	F	Dr Shaik Riyazuddin	87	503366	F	Radhamani V	129	500294	M	Dr Vibhu Srivastava
4	503392	AM	Sai Leela S Bedkekar	46	500810	F	Dr Prashant V Joshi	88	503367	F	Dr Balakrushna Tripathy	130	500838	M	Dr K N Vidyasagar
5	503393	AM	Giri S Kulkarni	47	500811	F	Anitha Kumari R D	89	503368	F	Insha Sharaf	131	500839	M	Neethu K N
6	503423	AM	Kavya B S	48	500813	F	Dr Amrut Anilrao Purohit	90	503369	F	Mukund Mohan Kulkarni	132	500840	M	Sowmya C H
7	503424	AM	Pallavi R	49	500814	F	Dilna U	91	503370	F	Dr Neeraj Goel	133	500844	M	Jyothy S T
8	503425	AM	G Aishwarya Ranjan	50	500815	F	Dr Deepthi Murthy T S	92	503373	F	Dr Bindu Salim	134	500847	M	Raghu K
9	119351	F	Dr K Rama Devi	51	500817	F	Dr Manjunath R Kounte	93	503374	F	Nidhi Kaushik	135	500853	M	Mohd Tauseef
10	049446	F	Gian Singh Deshwal	52	500818	F	Dr Nataraj Urs H D	94	503375	F	Neeraj Kaushik	136	500854	M	Anil Kumar V
11	052044	F	Dr Sudarshan Rao Nelatury	53	500820	F	Dr Prameela Kumari N	95	503376	F	Dr Akash Saxena	137	500857	M	Dr H T Madan
12	052518	F	Dr Parthasarathi Chakraborty	54	500822	F	Raji C	96	503377	F	Dr Srinivas Nallagonda	138	500863	M	Ashwini P
13	092987	F	Dr Tapas Kumar Majumder	55	500823	F	Divya M N	97	503378	F	Dr J Mohana	139	500865	M	Pratima A
14	101906	F	Col(Dr) Omprakash Malik	56	500824	F	Dr Manjunath G Asuti	98	503379	F	Dr Manoj Kumar Debnath	140	503371	M	Meenakshi Simha
15	103868	F	Kulbhushan Saini	57	500825	F	Dr A Raganna	99	503380	F	Dr M Sucharitha	141	503372	M	T N Rashmi
16	116372	F	C Gnanapriya	58	500874	F	Dr Manjula R Bharamagoudra	100	503381	F	Dr Nancharaliah Battula	142	503388	M	Dr Vikas Pathak
17	134118	F	Dr Gutta V S N R Vara Prasad	59	500910	F	Dr Ashok Bhausahab Botre	101	503382	F	Dr Sivaram Krishnavajhala	143	503389	M	Dr Amit C Rathod
18	142691	F	Shital Jain	60	501494	F	Dr Arun Kumar Gande	102	503383	F	Dr Sanjay S Dola	144	503414	M	Dr Prahlada Rao Kaluri
19	150440	F	Dr Rohini D Deshpande	61	501495	F	Mohammad Faruk Hashmi	103	503384	F	Niladri Roy	145	503415	M	Dr Prasenjit Deb
20	169066	F	Dr Vullanki Rajesh	62	501635	F	Dr Man Mohan Garg	104	503385	F	Pravinkumar P Ambekar	146	503416	M	Anilkumar C S
21	169638	F	Dr Kapil Kumar	63	501867	F	Dr Suhil Kumar Shukla	105	503386	F	Dr Chandan Kumar Chanda	147	503417	M	Srikanth Kailas
22	170122	F	Dr Mruttanjaya S Aspalli	64	502207	F	Dr Om Jee Pandey	106	503387	F	Dr P Shanthi	148	503418	M	Dr K Shri Ramtej
23	177655	F	Dr B Venkateshulu	65	502911	F	Dr Surendra Singh	107	503394	F	DR Shashank Dwivedi	149	503419	M	S Bhoopalan
24	190686	F	Dr Jose Anand	66	503342	F	Dr Priyadarsan Patra	108	503395	F	Dr M Devanathan	150	503420	M	Syam Babu Darsi
25	192348	F	Dr Sushanta Kumar Mohapatra	67	503343	F	Dr Sanjay Ramakrishna Sange	109	503396	F	Dr Gyanappa A Walikar	151	503421	M	Apurva Thakur
26	202266	F	Dr Arun Agarwal	68	503344	F	Col Hemant Kumar Trivedi	110	503397	F	Dr Rajendra Karthik	152	503422	M	Dr E Kosalendra
27	208209	F	Harjeet Singh Chadha	69	503345	F	Dr Deepak Motwani	111	503398	F	Dr Nikhath Tabassum	153	G00625	ORG	Sri Indu Institute of Engineering and Technology, Hyderabad
28	215174	F	Comdt Krishna Kumar G	70	503346	F	Boddupally Janaiah	112	503399	F	Dr Vinaykumar R	154	G00626	ORG	Sri Padmavathi Women's Polytechnic, Tirupati
29	216330	F	Dr Yarlagaadda Symalama	71	503347	F	T Kavitha	113	503400	F	Dr Sankata Bhanganj Prusty	155	G00627	ORG	Indira Gandhi Delhi Tech Univ for Women, Delhi
30	219658	F	Arup Kumar Bhattacharjee	72	503348	F	Dr S V R Manimala	114	503401	F	Dr Ravichandran R	156	G00628	ORG	National Institute of Technology Teachers Training and Research, Chandigarh
31	223320	F	Dr Ravikumar Polukonda	73	503349	F	Dr Brojeshwar Bhowmick	115	503402	F	Neerav Nishant	157	G00629	ORG	National Institute of Electronics & Information Technology, Delhi
32	223391	F	Dr Krishna Meel	74	503350	F	Dr Dabhu Suman	116	503403	F	Dr Sabirgirijam J	158	G00630	ORG	SRM University, Guntur
33	228035	F	Dr P Kalpana Devi	75	503351	F	Shilpa B Darvesh	117	503404	F	Dr Gunnam Suryanarayana	159	G00631	ORG	Seshadri Rao Gudlavalluru Engineering College, Krishna
34	228116	F	Dr Umesh Kumar Sahu	76	503352	F	Dr Pradyut Kumar Sanki	118	503405	F	Dr Tarun Kumar	160	G00632	ORG	IILM University, Greater Noida
35	231963	F	Dr Balwinder Raj	77	503353	F	Dr S Sreelal	119	503406	F	Dr VNS Narayana Murthy	161	G00633	ORG	Shri Ram Institute of Technology, Jabalpur
36	232019	F	Dr Siddharth D Joshi	78	503355	F	Mohit Chandra Saxena	120	503407	F	Nomi Sonowal				
37	232514	F	Dr Neha Jain	79	503356	F	Mitali Chatterjee	121	503408	F	Dr Gaurav Saxena				
38	232541	F	Dr Prateek Nigam	80	503357	F	Dr Poonam Arora	122	503409	F	G Vasudevan				
39	232722	F	Dr Niraj Kumar	81	503358	F	Shyam Kishore Gouda	123	503410	F	Dr Ohatkar Sharada Narsingrao				
40	236882	F	Dr E D Kanmani Ruby	82	503359	F	Dr Chusen Duari	124	503411	F	Prathibha G				
41	237103	F	Anand Suhas Gharpure	83	503360	F	A P Revathy	125	503412	F	Dr Subhasis Panja				
42	237433	F	Dr R Praveen Kumar	84	503361	F	Dr Santosh Kumar Behera	126	503413	F	Dr Shiv Narayan				

## IETE Women Achievers



**Dr Vrinda Gupta (M-155561)** is an associate professor and is currently heading the Department of Electronics and Communication Engineering at the National Institute of Technology Kurukshetra. She is an advisor and teacher to graduate and undergraduate students of electronics and communication engineering and has worked as an engineering teacher for more than 27 years. She is a researcher in the field of communications networks and the internet of things and has carried out her doctoral research in the area of wireless sensor networks. She has acted as an external expert panel member of the Doctoral Research Committee of Delhi Technological University, evaluated PhD thesis of Universities like Symbiosis International and Manipal Academy of Higher Education, and Examiner, MTech Dissertation (VLSI Design) of Dr BR Ambedkar NIT Jalandhar in 2021. Dr Vrinda has authored more than 60 publications in reputed journals, edited books, and proceedings

### Message:

*When the dream of success doesn't let you sleep; it's then you know that the history of success will be created.*

of conferences hosted in India and abroad. She has delivered about 15 keynote /expert lectures in various national conferences and Faculty Development Programmes including one sponsored by ATAL Academy, AICTE. Dr Vrinda has supervised 38 B.Tech projects, 35

M.Tech dissertations and one PhD thesis is ongoing. She has organized many seminars, workshops & short-term courses. Dr Vrinda is a Reviewers' Committee member of some SCI/Scopus indexed journals of Elsevier, & Springer, and National Advisory Board/Technical Program Committee member of International Conferences CICT-2018, ICEECCOT-2018, ICACCT-2019, and IMICPW-2019, ICCWC-21, Indian Engineering Congress 20-2021. She has chaired sessions of the Electronics and Telecommunication Engineering Division of some National and International Conferences. She is a member of professional societies, viz. IEEE, IETE, ISTE, IAENG, SSI, & Vigyan Bharti, and Fellow of IE (I). She has presented a research paper at international conference hosted in Spain (2007), Imperial College London, UK (2011), and visited University of Houston (USA).

Dr Vrinda has been currently serving as Chairperson of the Haryana State Centre, IE (I). Be-

fore this, she was an Executive Committee member at the Haryana State Centre, IE (I) 2015 onwards till 2019. She is the recipient of the Excellence Award-2021 of The Institution of Engineers, Rajasthan State Centre Jaipur, Scroll of Honour by IE (I) in 2020, Eminent Engineering Personality Award in 2019 of Institution of Engineers (India) and Er AC Chaturvedi Gold Medal for Best Paper Publication in Journal, ARPAN 2011.



**Dr Tanya Singh (M 230116)** is currently professor (CSE) / Dy Dir (Academics), Amity University UP, teaching courses on networking, data science, machine learning and cyber security. With experience of over 22 years, her prime motivation is teaching and building skills by encouraging critical thinking, implementation and ability to convert technological ideas into social and sustainable innovations. She has been awarded by Cisco Inc

for significant contributions in the field of networking such as 'Instructor Excellence Award' in 2018, 2019, 2020 and 2021 consecutively. She has also been awarded for '10 years of active participation and service' by Cisco. Out of three patents filed, one was granted on 5<sup>th</sup> Jan 2022. Cisco Inc awarded her for contributing to the Skill Development Program in Rajasthan in the year 2016. She has more than 50 peer reviewed scopus-indexed papers and books in the area of Cyber Security. Expert at ISO 9001:2008 /ISO 14001:2004, she has built and environment for quality journey and has been given Certificate of Appreciation for Contribution towards building Quality by Amity University in 2008. She has been instrumental in implementing multidisciplinary education and interdisciplinary research as per NEP 2020 & UPHEd2021. She has taken initiatives such as creating policies, automation, organizing FDPs, seminar in the area to integrate disruptive technologies and e-content development for remote teaching during Covid and New Normal. She is also serving member for Bureau of Indian Standards – LITD 27 (Internet of Things)/LITD – 30 (Artificial Intelligence), and Sr IEEE member, Member of IETE, ISOC and other professional bodies.

### Message:

*I will continue to contribute as an IETEian in its various endeavors to provide quality education, training & consultancy*

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