

#### Volume-20, Number-1, January-April 2018

# FROM PRESIDENT'S DESK



Dear Members,

IETE has just been through another exciting and fulfilling quarter, and, as always, it is gratifying to share our activities with you.

Mid Term Symposium 2018; one of our flagship events was organized successfully at Visakhapatnam, during 8<sup>th</sup>-9<sup>th</sup> April 2018. The event brought together several ministers and subject matter experts to deliberate on "Recent Trends in Wireless Communications". To commemorate the event a souvenir cum proceedings was released. I congratulate all my colleagues and members for their whole-hearted support in conduct of this programme.

In our constant endeavour to provide platforms to professionals and student community for building and enhancing their technical skills and capabilities, IETE Zonal seminars were conducted during past months on significant topics along with ISF Congress Meet. These seminars were organized by IETE Tirupati, Yavatmal and Jaipur Centres, well attended and addressed by the experts, members and academia. IETE Centres at Palakkad and Pune exhibited its dominion in successful conduct of IETE Apex Fora, as has been reported in this issue. I am happy to note that IETE Palakkad Centre also undertook to organize IETE National Technical Paper Contest-2018 this year and few women oriented programmes jointly with ISFs of the region. I express my sincere appreciation to Shri Haridas & his team for conducting the same. It was also very heartening to note that IETE PAC at Australia recently organized their 8<sup>th</sup> Symposium with encouraging participation.

The period also saw IETE conduct Students' Day and Women's Day apart from other training programmes and workshops. The programmes were extremely interactive and saw active participation.

IETE's request to set up an examination Centre in San Francisco has been accepted by the Indian Consulate. We will soon be conducting IETE examination overseas. Many recruitment agencies have been using our facilities to conduct their examinations. Thus, IETE has taken a leadership role in conduct of examination for major agencies like C-DoT and RITES India Ltd. Our repository of question bank has been highly appreciated by many PSUs, like we have recently provided question bank to BSNL for their recruitment examinations.

IETE President, Governing Council and Centre's elections are underway. In accordance with the provisions of various sections of the Articles of Association and Byelaws (7<sup>th</sup> Edition-November 2017), the nomination process will soon close and voting for the nominees shall open. All eligible members are invited to vote via their account portal on www.iete.org. Please visit IETE website wherein Call for Nominations for IETE Awards-2018 can also be found. Last date of receipt of nominations is May 31, 2018. I will appreciate if IETE members could encourage nominations of suitable persons for IETE Awards.

Members may be happy to note that after rigorous follow-ups, AICTE has expressed its desire to restore recognition to IETE courses very soon. I take this opportunity to thank all my predecessors including distinguished senior members and well wishers of IETE, who stood by us during this adversity.

In addition, our Membership enrollment has shown a remarkable jump in the past few months. A number of Institutions have been associated with IETE as its organizational members. We wish to carry this momentum forward. IETE journals are growing in status and standing so are the submissions each year. I am happy to inform that number of new editors from various organizations have been inducted in the Editorial Board of IETE Journal of Research to strengthen the reviewing process and help us reduce turnaround time for the benefit of our authors.

IETE, is all set for its next big technical event of World Telecommunication and Information Society Day (WTISD) in May 2018. The theme selected is **"Enabling the positive use of Artificial Intelligence for All"**. I am sure our members will participate in the WTISD in large numbers to derive full benefit from this important event.

The issue of IETE Newsletter is packed with reports on all the last quarter's happenings at IETE and its Centres. I am certain with the cooperation and dedication of all our Centres we will maintain and accelerate the momentum of our activities during the year 2018.

Best Wishes!



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IETE HQs, New Delhi



Prof (Dr) KTV Reddy

# **NEWS FROM HEADQUARTERS**

## IETE 49th MTS on "Recent Trends in Wireless Communications"

Wireless communication technologies have revolutionized the way we interact, with 5G scenario looming ahead on the horizon. To capture the impact of this mind-boggling pace of change, IETE held this year's Mid-Term Symposium during 8<sup>th</sup>-9<sup>th</sup> April 2018 on the topic, **'Recent Trends in Wireless Communications'** at picturesque Port City, Visakhapatnam -- one of India's emerging Smart Cities.

The event was organized by IETE Visakhapatnam Centre at Dr YVS Murthy Auditorium of Andhra University that provided an intellectually-stimulating environment, where delegates, students, teachers and experts fruitfully interacted to understand implications of this life-changing technology. The programme was hosted under the stewardship of **Prof K Raja Rajeswari**, Director R&D, GVPCEW, **Prof P Mallikarjuna Rao**, Chairman, IETE Visakhapatnam Centre, **Prof DV Rama Kotti Reddy**, Hony Secy, IETE Visakhapatnam Centre and Convener of the programme.

The Chief Guest Shri Ganta Srinivasa Rao, Hon'ble Minister of Human Resource Development, AP, Prof G Nageswara Rao, Vice-Chancellor, AP University, with host of other diginataries inaugurated the symposium by lighting the lamp. Prof D V Rama Koti Reddy, Honorary Secretary, IETE Visakhapatnam & Convener MTS-2018 welcomed the audience and informed them about the activities and accomplishments of the Centre. Prof K Raja Rajeswari, Chairperson MTS-2018 introduced the theme and gave details of the technical sessions planned. She informed that 26 papers were accepted out of 40, for presentation. The Guest of Honour, Prof P S Avadhani, Principal, Andhra University Engineering College, in his address dwelled on the growing importance of wireless communications in the health sector, enabling crucial medicare for country's remote areas.

President IETE, **Prof (Dr) KTV Reddy**, in his address exhorted students to seriously pursue updation of their skillsets by attending state-of-the-art technical seminars held by IETE at various centres and sub-centres besides engaging in Students Fora to gain insight into cutting-edge technologies while imbibing humane values. Former Minister for Endowments, Govt of AP, **Shri Pydikondala Manikyala Rao**, accentuated the impact of wireless communications and explained how it has catapulted the country into a global village where spectacular achievements in Space made us all proud.

The dignitaries on the dais released a Souvenir and Proceedings on the occasion. Mementos were presented by President IETE.

Delivering the keynote address, HRD Minister, Shri Ganta Srinivasa Rao Garu, said that technology should be leveraged for larger benefit of the society. He further



added that transparency and accountability had increased with proliferation of information technology. He remarked that Andhra Pradesh is pioneer in adopting real-time governance, leading to operational efficiencies in all citizencentric services. He highlighted that the state govt was setting up digital class rooms in all high schools to enhance students' learning experience. Nevertheless, he cautioned that advancements in were affecting personal relationships. Lauding the benefits of the digital technology, he said one should learn how to use it without undermining values.

Prof M N Hoda, Chairman, Technical Programmes and Publicity Committee introduced the Vikram Sarabhai Memorial Lecture and the speaker, Prof Ganapti Panda, former Deputy Director, IIT Bhubaneswar. Delivering the 45th Vikram Sarabhai Memorial Lecture, he covered topics related to recent trends in wireless communication. In his inspiring talk he revealed that 5G technologies based on worldwide wireless web will take at least two years for commercial deployment. Its use of very high carrier frequencies with large bandwidths will enable a seamless user experience providing at least 10 times the data rate provided by 4G. IoT will be enabled via deployment of smart sensors featuring self-organising capabilities. He revealed that limitations of smart phones like call-drops will be satisfactorily addressed by emerging technology of 'cognitive radio' that will dynamically detect 'spectrum holes' to enable optimal usage of frequency slots.

Vote of thanks was proposed by **Shri C K Haridas**, Zonal Mentor (South).

The second day commenced with Dr Lal C Verman Lecture by **Prof Hemant P Chaudhari**, HoD, Instrumentation Engineering at All India Shri Shivaji Memorial Society's Institute of Information Technology, Pune, the awardee of 2017. In his inspiring talk, the speaker unveiled creative approaches evolved over a period of time to equip students in the vital field of instruments engineering, which is eminently suited to industry's requirements. Innovative teaching strategies that had nucleated fiery passion amongst students to gain competitive advantage. Many of these graduates become successful entrepreneurs, while others opt for higher education.

The three technical sessions held on the second day, were chaired and moderated by **Prof K Murali Krishna**, ANITS; **Dr K Chandra Bhushana Rao**, JNTU-Vizianagaram and **Prof N Balasubramanyam**, GVP College of Engineering, respectively. Each technical session commenced with an overview by the respective Chairman followed by presentation of contributed papers by the scholars.

In his invited talk, **M Bhagavan Prasad** (BSNL) outlined the entire development of communications clarifying virtually all important concepts like Bluetooth, WiFi, Wimax, NFC, Infra red, GSM, CDMA, 4G, 5G and so on. Interactive session contributed lot of value to the listeners.

**Prof M Surendra Prasad Babu**, Vice Principal AU College of Engineering, praised the conduct and content presentation of IETE symposium that elicited keen academic interest. **Prof MN Hoda**, Chairman TPPC, complimented the IETE Visakhapatnam Organizing team for successful conduct of the event.

The inaugural session concluded with a cultural program by an eminent music society, presenting inspiring dance items by young performers, which was highly applauded.



# 22<sup>nd</sup> Sir C V Raman Memorial Lecture 2018

IETE Bengaluru Centre organized the 22<sup>nd</sup> Sir C V Raman Memorial Lecture and National Science Day Celebrations on 28<sup>th</sup> Feb 2018.

Speaking on the 'Highlights of Indian Space Science Program', **Dr S Seetha**, Director, Space Science Programme Office, ISRO HQ, explained the need for having space-based observatories for studies of galaxies and outer space as Earth's atmosphere blocks out the high-energy radiations like X-rays, gamma rays, and most of the ultraviolet rays. She added that the atmosphere also absorbs most of the infrared radiations. She informed about the ISRO launched satellites like SROSS, Mars Orbiter Mission (MOM), Chandrayaan-1 and Multi-wavelength Astronomy mission ASROSAT etc., for scientific explorations.



Chief Guest, Prof B S Sonde, Past President IETE, Former Vice-Chancellor Goa University, addressing the audience on the occasion

Chief Guest, **Prof B S Sonde**, Past President IETE, Former Vice-Chancellor Goa University and Chief Mentor of the Bengaluru Centre, in his speech highlighted Sir C V Raman's life history and the discovery of Raman Effect. He also explained the rationale behind the celebrations for National Science Day on 28<sup>th</sup> February and commemorating the discovery of Raman Effect.

Shri R Somasundram, ex-Chairman IETE Bengaluru Centre and Retired Addl Director, Ministry of Defence, extensively talked about Sir C V Raman and a book by Shri Somasundaram titled *What Is Time*, which was presented to student participants. Shri G Ramesh, Chairman, Bengaluru Centre, delivered the welcome address. Prof H S Bhatia, Hony Secy, proposing vote of thanks, expressed special thanks to Prof (Dr) Ravishankar HoD, Sambram College of Engineering and to Dr M H Kori, Chairman IMAPS India Chapter for their unflinching and committed support.

# **IETE National Technical Paper Contest (NTPC)-2018**

The National Technical Paper Contest (NTPC) for the year 2018 was conducted by IETE Palakkad Centre on 21<sup>st</sup> Apr 2018. A total of 36 technical papers were received from the UG students mostly from South Zone, and were scrutinized by a Review Committee comprising of Prof P Nandakumar, Dr L Kala, and Prof P Sudhir. The papers were rigorously reviewed in the presence of the Convener, Dr V Devi for final presentation. The technical committee selected two eminent judges, Retired Professor & IIT Visiting faculty, Dr S Sreenadhan and Dr T B Isha from Amrita Viswa Vidhya Peethom (Autonomous University) for evaluating the selected papers based on the presentations.

The best three papers selected based after evaluation were: **Sibi C B & Arun Chandran** for their paper "Mobile Video Surveillance Robot" (1<sup>st</sup> position) **Shri V Vishal Kumar** for his paper "Wireless LED scrolling display using IoTTechnology" (2<sup>nd</sup> position) and **Athulyatej K V**, **Ms Deepika M V** and **Ms P Poornima** for their paper , "A GA-based Complete Resource Allocation Paradigm in Cloud" (3<sup>rd</sup> position). The valedictory session was presided over by **Dr K Geetha**, Chairperson of the Centre. The judges Dr S Sreenadhan & Dr T B Isha too expressed their views on the paper presentations. **Shri C K Haridas**, IETE South Zone Mentor, explained the background of NTPC activity conducted by IETE and distributed certificates to the participants. Vote of thanks was proposed by Dr V Devi, Convener NTPC 2k18.



# **IETE South Zonal Seminar and ISF Congress at Tirupati**

IETE Tirupati Centre and S V University, Tirupati organised the IETE Zonal Seminar (South) 2018 at SV University, Tirupati on Blockchain Technology on 19th Feb 2018. It was inaugurated by the Chief Guest, Shri J A Chowdary, Special Chief Secretary to Chief Minister of AP and IT Advisor to Govt of Andhra Pradesh and sponsored by AP State Council for Higher Education, Amaravati National Remote Sensing Centre, ISRO, Hyderabad. The chief guest in a address gave a bird's eye view of the Blockchain Technology. He said that the Govt of AP is the first government in the state to the adopt it and implement for e-Governance. Govt of India has made plans to implement this technology in its e-Governance initiatives. Shri Chowdary encouraged the students to learn the basics and be self reliant like 'Ekalavya' by studying the latest technologies on their own using e-learning resources. He mentioned that Blockchain Technology, Artificial Intelligence and Big data analytics were the areas, going to provide the much needed employment opportunities. Vice Chancellor, Prof A Damodaram informed the gathering about the initiatives taken by the University for achieving excellence in the academic domain, high recognitions and national/international rankings received by SV University, Tirupati.

**Prof (Dr) KTV Reddy,** President IETE spoke about various schemes of IETE through which it was reaching the unreached, college students, faculty members and mainstream professionals in ICT sectors through degrees, seminars, conferences, training schemes, awards and recognition schemes. He informed the role of IETE in the formation of national telecom policy. South Zone Mentor, **Shri CK Haridas** outlined the IETE schemes for students.

**Dr Shashank Garg**, Chief Mentor, Digital Innovations Lab at IIM Bangalore, gave a detailed exposition of applications of Blockchain Technology in social and healthcare sectors in his keynote lecture. **Shri NT Arun Kumar**, Director General of International Institute of Digital Technology (IIDT), Tirupati, gave an outline of the initiatives of IIDT using interdisciplinary approach to solving problems of society. The function was attended by invited speakers from Forty Two labs, Benka Consulting and Fejlett Technologies as well as members of IETE Governing Council members-**Dr S Vijaya Bhaskara Rao**, **Dr Subbi Reddy** and **Shri P G Nair** IETE Kozhikode Centre Chairman & faculty of SVU, NARL in addition to IETE corporate members.

Technical lectures by industry experts followed the inaugural function. Shri Subramanya Gupta Boda, an expert on information security spoke on Distributed Ledger Technology: Present and Future in country's context. Shri Sanjay Deshpande, Chief Scientist, FortyTwo Labs LLC, USA spoke on Digital Identity, Privacy and Blockchain. Dr Jayashri Benkal, BEnKA Consulting, gave an overview on Blockchain Technology: Future scope and importance in various industries. Shri Jagadeesh Sankaran, Chief Architect of Blockchain at Fejlett Technology, UK apprised the audience on "Enterprise Blockchain - Opportunities for disruptive innovations".

**Prof (Dr) KTV Reddy** encouraged the ISF students' community to focus on latest technologies and congratulated the IETE Tirupati Centre team on the successful organization of the IETE Zonal Seminar 2018. **Dr TVC Sarma** presided over the function and Dr T Rajendra Prasad, Hony Secretary, proposed vote of thanks.



Dignitaries inaugurating IETE Zonal Seminar (South) 2018 on Blockchain Technology at SV University, Tirupati

Dr Shashank Garg, Chief Mentor, Digital Innovations Lab, IIM Bangalore, delivering the keynote address

# **IETE West Zonal Seminar, ISF Congress, Zonal Innovation Meet-2018**

The IETE Zonal Seminar (West Zone)-2018 was organized on the theme Techno-Socio Development through Women Empowerment by IETE Yavatmal Sub-Centre at Jawaharlal Darda Institute of Engineering & Technology(JDIET), Yavatmal on 17th Mar 2018. The program was inaugurated by President IETE, Prof (Dr) KTV Reddy, Prof S K Khedkar, IETE Zonal Mentor (West Zone) and Shri Kishor Darda, Secretary, JDIET, Yavatmal. The guest experts for the seminar included: Dr VT Ingole, Senate Member SGB Amravati University, and Shri Manish Shukla ITS, Principal, RTTC, Nagpur. The others dignitaries who shared the dais were: Dr AP Thakare, Governing Council Member IETE, Dr JW Bakal, former IETE Zonal Mentor (West Zone), Dr AW Kolhatkar, Principal, JDIET Yavatmal, Dr PV Ingole, Chairman, IETE Amravati Centre, Dr SM Gulhane, Chairman, IETE Yavatmal Sub-Centre & Convener, IETE Zonal Seminar 2018 and Dr PM Pandit, Hony Secretary Sub-Centre & Co-Convener, Zonal Seminar 2018. The expert talks were delivered by Dr VT Ingole on, 'Turnary Computer' and Shri Manish Shukla on Empowering Women IT Entrepreneurs in Digital India Roll Out.

The **ISF Zonal Congress** and **Zonal Innovation Meet-2018** were also successfully organized a numbers of technical activity under the programme named, *Techno Xtreme* which included paper presentation, poster exhibition, webpage designing, quiz competition, blind C. This event was attended by around 1043 students and faculty members. All

the winners were felicitated by certificates, mementos and prizes.

The IETE Zonal Innovative Project Meet (West Zone)- 2018 was arranged on the same day. Out of 84 entries received the best three entries selected were : "Novel Multi-tasking Agricultural Robot" (Shri Shubham Gulhane, Ms Vaishnavi Take, Shri Shubham Bhore from Sipna College of Engineering, Amravati); "Smart Automated Bus Station" (Shri Prasad Nilajkar, Shri Nilesh Patel from Jawaharlal Darda Institute of Engineering & Technology, Yavatmal) and "Automatic Instrumentation System to record and Identity Bird call in a location with various weather parameters" (Ms Divya Sodha, Ms Nikita Dehankar, Ms Sakshi Gandhi from Jawaharlal Darda Institute of Engineering & Technology, Yavatmal).

• During the IETE Zonal Congress Meet 2018 (W Zone) IETE President, Prof (Dr) KTV Reddy; West Zone Mentor, Prof S K Khedkar, Governing Council Member; Dr AP Thakare, Dr JW Bakal, Dr PV Ingole, EC members and corporate members graced the Congress Meet. Dr SM Gulhane, Dr PM Pandit, and ISF Coordinators were present. Addressing the students, IETE President announced the new fees structure being offered by IETE for promoting mass membership to corporate members and ISF members. He appealed all present to promote IETE membership drive. Dr SM Gulhane gave presentation on a proposal "New Avenues of Fund raising for IETE".



Inauguration Session in progress

6

Section of participants

# **IETE North Zone Seminar and ISF Congress at Jaipur**

IETE Rajasthan Centre, Jaipur, organized one day Zonal seminar and ISF Congress on Advances in Electronic Circuit and Systems on 21<sup>st</sup> April 2018. The event was organized at and in association with the SKIT, Jaipur. IETE President **Prof (Dr) K T V Reddy** was Chief Guest of the program and **Col Balraj Anand**, IETE Honorary Treasurer was the Guest of Honour. The inauguration ceremony started with lamp lighting and unveiling of Souvenir by **Prof KT V Reddy**, **Prof S Pal, Col Balraj Anand**, **Dr Ghanshyam Singh**, Chairman IETE, Rajasthan Centre, **Prof S K Bhatnagar** and other dignitaries. Prof KTV Reddy highlighted the role of youth in development and implementation of technology and said that Digital India and Skill India programmes need the participation of young engineers in

empowering rural population with technology enabled/supported solutions. This was followed by expert talks by **Prof S N Sharan** and **Prof Mahesh Bundele** on various energy harvesting methods and neural networks, respectively. After lunch session, ISF Congress and Innovation Meet were held, in which students and participants displayed their projects and innovative ideas on application of electronics and IoT in automation, aeronautics, energy and irrigation. The winner groups were awarded with certificates and prizes. This was followed by contributed technical papers presentations. The sessions were chaired by Prof **O P Sharma**, **Shri Dinesh Yadav**, **Dr Sandeep Vyas**, HOD EE, JECRC, Jaipur and **Shri Nidhish Tiwari**. Best presentations were awarded with the certificates and prizes. In valedictory function, **Prof Manish Tiwari**, Hony Secretary, IETE, Rajasthan Centre, presented the certificates to all participants.



**Release of Souvenir** 

# **IETE Apex Fora (2017-18)**

The 1st Apex Forum (2017-18) was organized on Recent Trends in Artificial Intellelligence (RTAI-2k18) by IETE Pune Centre in association with Dept of ET, JSPM's Bhivarabai Sawant Institute of Technology & Research (BSIOTR), Wagholi, Pune on 28th Feb 2018, with an aim to discuss an overall research goal of artificial intelligence for creating technology that allows computers and machines to function in an intelligent manner; and for participants to get acquainted with machine mimics "cognitive" functions that is generally associated with 'learning' and 'problem solving' of human minds. Dr AA Ghatol, Dr Babasaheb Ambedkar Technological University( BATU), Lonere, was the Chief Guest and Prof SK Khedkar, Mentor West Zone, the Guest of Honour. Shri GK Dawara, Centre Charman; Shri KS Shende, Hony Secretary, IETE Pune Centre; Dr TK Nagaraj, Principal, BSIOTR; Dr DD Shah, Dr PH Patil, Dr VV Kayande, Campus Director, JSPM Wagholi Campus, shared the dais. Dr Ghatol in his address highlighted the role of AI in development. Prof Khedkar cited simple examples of AI and its applicability in daily life. Shri Dawara gave an overview of activities. Shri Shende focused on development of AI. Dr Nagaraj and Dr Kayand thanked Pune Centre for giving opportunity to conduct Apex forum at BSIOTR. Dr Angal, Convener of apex forum and HoD, ET, BSIOTR also addressed the gathering.

**Shri Atul Joshi**, CEO, Indus Aviation Systems, Pune and **Dr Nitin G Palan**, Professor were resource persons. They shared their experience and exhibited simulations and demonstrations of artificial intelligence applications. Vote of thanks was proposed by **Dr YS Angal**. More than 200 students UG and PG , Faculties attended the IETE Apex forum on RTAI-2k18.



• The 2<sup>nd</sup> Apex Forum (2017-18) was organized on the theme Mobile Phone: Gateway to Financial Services at IETE Palakkad Centre on 3<sup>rd</sup> Mar 2018. Dr K Francis Jacob, ITS, GM, BSNL Palakkad, moderated the programme. Nine experts from diverse sectors took part in the Panel discussion, *viz*. Banking Sector – Shri M Jayaram, RM, SBI, Palakkad; Industry Sector-Shri Sumesh K Menon, MD, Winds Business Solutions, VP, PMA; Shri M B Chandrasekaran, CGM, PL Group of Companies, Kanjikode; Railway Dept – Shri N Ramachandran, Sr DSTE, Southern Railway, Palakkad; Postal Dept – Shri K Manoj, ASP; Communication Sector - Shri M S Ajayan, Divisional Engineer, BSNL; KSEB Sector – Shri V Mani Kandan, Sys Admn, KSEB; Economist - Dr K K Jisha, Asst Prof, Govt Victoria College and Media – Mr Schiller Stephen, President, Press Club.



The welcome address was delivered by **Shri C K Haridas**, IETE South Zone Mentor. The programme was presided over by **Dr K Geetha**, Centre Chairperson and programme saw participation of number of experts. **Dr K Francis Jacob**, GM, BSNL in his introductory remarks mentioned about the present scenario of mobile phone usage and the growing importance of Big Data Management and its security with special mention to Aadhaar/PAN number linkage in transactions through mobile phone. **Prof C Pradip**, Immdt Past Chairman, gave a number of valuable suggestions for financial transactions with precautions on mobile phone.

# New Members of IETE enrolled/upgraded during Dec 2017 to Mar 2018

S No	MEM	CAT	NAME	S No	MEM	CAT	NAME	S No	MEM	CAT	NAME
1	003035	F	Rao, B R Shankar	69	500959	F	Pundlik, Yogesh Yashawant, Dr	137	501150	F	Ramasubramanian R
2	045184	F	Nalam, Ramakrishna		500960	F	Rameshwar Rao, Dr	138			Shivaprakash B
3	045224	F	Shashikala V	71	500961	F	Thuraka, Esther Rani, Dr	139	501152	F	Ponnuru, Jvks Prakasha Rao
4	062421	F	John Bosco M S	72	500962	F	Muvva, Raghavendra, Dr	140	501153	F	Karthikeyan B, Dr
5	081116	F	Varma, Chandra Prakash, Dr	73	500963	F	Singh, Rajiv Kumar, Dr	141	501154		Shaji, Nigar
6	103752	F	Dharmavaram, Asha Devi, Dr	74	501007	F	Surti, Mustafa Yusuf	142	501155		Harinath M
7	104659	F	Andhiwal, Ajay	75	501008	F	Patel, Naresh Kumar M	143	501156	F	Subbaraya Sastry C V R, Dr
8	116083	F	Joshi, Girish Chandr H		501009	F	Dastoor, Sarosh K	144			Murali, Krishna Bhagavan G
9	126970	F	Dixit, Manish, Dr	77	501010	F	Pathak, Ketki Chintan Kumar	145	501158	F	Veera, Raghava Reddy O
10	133122	F	Agarwal, Pragya, Dr	78	501011	F	Shah, Nehal N, Dr	146			Shirole Babu
11 12	141949 152189	F	Shukla, Anupam, Dr	79	501012	F	Paunwala, Mita C, Dr	147 148			Penchala Babu A
13	152189	F	Karthikeyan C Katheria, Yatish	80	501013	F	Paunwala, Chirag N, Dr		501161		Nadagouda, Ramanagouda V Ramachandra
14	155579	F	Naveen H N	81 82	501014 501015	F	Chapatwala, Neeta Hemant Suresh Kumar S, Dr		501162		Puli, Shravan Kumar
15	166199	F	Shrivastava, Neeraj, Dr	83	501015	F	Bhushan, Bharat, Dr	151	501164		Hiriyanna Bhatt Ramamurthy
16	166317	F	Jose Kurian	84	501010	F	Shinde, Jayashree Pratap, Dr	152	501165		Ranga Rao Venkatesha Prasad, Dr
17	181432	F	Ramana Reddy R, Dr	85	501018	F	Shinde, Pratap Nivrutti, Dr	153	501166		Lakshminarasimhan R, Dr
18	181539	F	Sharma, Dilip Kumar, Dr	86	501048	F	Misra, Subhas Chnadra, Dr	154		F	Raghavendra M R
19	192349	F	Deshpande, Prateek B, Dr	87	501049	F	Padmanaban, Sanjeevi Kumar	155	501168	F	Umadevi K
20	198448	F	Rajesh M V, Dr	88	501050	F	Gajjar, Bhoomi Sandip	156	501169	F	Venkata Guru Subramanyam A, Dr
21	198778	F	Pawar, Pragati D	89	501051	F	Kodanda Ramaiah, G N, Dr	157		F	Bhuvaneswari B, Dr
22	200010	F	Rubesh Anand P M, Dr	90	501052	F	Jayadeva, Dr	158			Maheswari, Uma S, Dr
23	209755	F	Patel, Piyush Navnitlal, Dr	91	501104	F	Banerjee, Prodosh Kumar	159	501196		Damodaran, Selvaraj, Dr
24	211865	F	Vallem, Sharmila, Dr		501105	F	Jolie R		501197		Sivaraman, Deepa, Dr
25	211866	F	Banala, Ramesh		501106	F	Parimal Kumar		501198		Maheswari S, Dr
26	211867	F	Nellutla, Sasikala		501107	F	Bindu K R	162	501212	F	Lakkoju, Srinivasa Rao
27	211912	F	Udugula, Rajaiah	95	501108	F	Reviraj N	163	501213		Sowbhagya Lakshmi S
28 29	212165	F	Solanki, Lovendra, Dr	96	501109	F	Madhusudhana C S	164			Ramesh Babu Raj S
30	215181 216306	F	Krishna Murthy G Pabari, Jayesh Prabhudas, Dr	97	501110	F	Vinod Kumar Dr	165 166		F	Kamat, Sandhya V Vaddi, Raghavaiah
31	216355	F	Subramanian, Ganesh, Dr	98 99	501111	F	Anuradha, T K	167	501210		Narayana Swamy D
32	216381	F	Sunita Ratnam S, Dr		501112 501113	F	Nagalakshmi A M Kartik A	168			Poornima G, Dr
33	217714	F	Suma, K V		501113	F	Raveendranath G N		501222		Ravi Shankar C V, Dr
34	218833	F	Khaja, Mujeebuddin Quadry, Dr		501114	F	Jothy Soman	170			Prasad G N V
35	221197	F	Moirangthem, Marjit Singh, Dr		501116	F	Ramalakshmi N	171	501224		Sharma, Venkateswara, Dr
36	223449	F	Adepu, Hariprasad		501117	F	Sudhakar S	172	501225		Alam, Mohd Afshar, Dr
37	224682	F	Koner, Chandan, Dr		501118	F	Mruthyunjaya L	173	211913	М	Pundlik, Gauri Yogesh
38	224769	F	Mekala, Shyam Sundar, Dr		501119	F	Suvarna L	174			Vinay Kumar
39	232557	F	Bansiwal, Ashok	107	501120	F	Sharma, Satish	175	228606		Sunil Kumar
40	233964	F	Hiwarkar, Tryambak A, (Dr)Prof		501121	F	Rajendra Kumar A	176		M	Kaushik, Padmini G
41	234232	F	Malathi, D, Dr		501122	F	Tyagi, Anurag	177	230141	M	Rathod, Abhay Bhaurao
42	234609	F	Anand, Rishu Chaujar, Dr		501123	F	Prakasha, Anuradha Swayam	178	500744	M	Kumar, Manjeet, Dr
43 44	500883	F	Kondragunta Rama Krishnaiah, Dr		501124	F	Ashwin G S	179	500873		Singh Vikram, Lt Col
44	500884 500885	F	Ganorkar, Sanjay R, Dr Khurana, Harjit Kumar		501125	F	Pradeesh, Madhavan	180 181	500874 500875		Manjula R Bharamagoudra, Dr Hemalatha N
45	500885	F	Sheode, Prashant Manohar, Brig		501126	F	Kamalapriya V	181	500875	M	Usha Rani G
40	500888	F	Misra, Krishna Avatar, Dr		501127 501128	F	Suresh K Singaravelan S	183	500870	M	Gupta, Pankaj Mohan
48	500889	F	Padhy, Manas Ranjan		501128	F	Pujari, Vijaya Kumar	184	500878	M	Salpekar, Moreshwar
49	500890	F	Dubbudu Hema Latha		501129	F	Shaji, V Sebastian	185	500880		Murugavel S
50	500892	F	Vikram, Abhishek, Dr		501130	F	Subramanya Udupa	186	500881		Lokhande, Sandip Sopan
51	500893	F	Shaikh, Sajid Wajed, Dr		501131	F	Rajendran P N	187	500882		Mondal, Koushik, Dr
52	500894	F	Senthil Kumar D		501133	F	Ahmad, Imteyaz	188	500891		Dubbudu, Rama Krishna Reddy, Dr
53	500895	F	Avaru, Venkata Ramana, Dr		501134	F	Mahadeva Sastry S R	189			Randhawa, Jatinder Singh, Lt Col
54	500896	F	Roopa K, Dr	122	501135	F	Gupta, Kiran A, Dr		500901		Dubbudu Sudha
55	500897	F	Sharma, Satinder Kumar, Dr		501136	F	Nanda, Manju, Dr		500902		Sakthisudhan K, Dr
56			Talole, Sanjay Eknath, Dr		501137	· ·			500903		Tyagi, Ranbeer
57		F	Bhandari, Sanjay		501138	F	Sura P S		500904		Panchal, Manish
58	500947	F	Shrirao, Anil B, Dr		501139	F	Nandini, Hari Nath		500905		Sharma, Reecha, Dr
59	500948	F	Gupta, Bhawna		501140	F	Khan, Abdul Rahman		500906		Dixit, Payal
60	500949	F	Bhatnagar, Smriti Gupta, Richa, Dr		501141	F	Ravi Kumar L		500907		Khan, Taimoor, Dr Nandakumar N P, Dr
61 62	500950 500951	F	Mohammed, Saif Khan, Dr		501142	F	Gupta, Mukesh Kumar		500908 500909	M	Unni, Keerthi
62		F	Kolla, Mastanaiah		501143	F	Rarotra, Namit		500909		Botre, Bhausaheb Ashok, Dr
64		F	Mazumder, Prabal		501144 501145	F	Hemanth Kumar Reddy N Nagiligari, Kishore Babu		500910		Benitha V S
65		F	Mohanty, Nalin Kant, Dr		501145	F	Yogesh Prasad, K R, Dr		500911		Divya M
	500955	F	Goel, Brij Kishore		501146	F	Dinakaran E		500912		Kulshrestha, Atul
	500956	F	Yadav, S G Shivaprasad, Dr		501147	F	Jaishmi Kiruba Rajathi R		500914		Das, Supratim Subhra
	500957	F	Rana, Nirdosh Kumar, Dr		501148	F	Jagadesh Babu Bs		500915		Das, Ria
				100	301143		Pagaacan baba ba	<u> </u>			

F = Fellow

M= Member

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No.         Rajarapollu, Prachi Rohit           205         500916         M         Raraswathi, Soujanya           207         500910         M         Roopa Lakshmi G           208         500920         M         Deepa M N           209         500921         M         Kaya Venkateswarlu           210         500922         M         Hanumanthu, Anita           211         500923         M         Kirpal Kour S           214         500926         M         Mangoth, Laxman           215         500927         M         Pujari, Sridhar           216         500928         M         Archana V           217         500964         M         Sningh, Samayveer, Dr           221         500967         M         Singh, Samayveer, Dr           221         500969         M         Atarde, Khenchandra Nathu           223         500970         M         Syed, Arnjed Ali           224         500971         M         Arora, Varun           225         5009972         M Kaur, Gurpreet           226         501019         M         Matampalli, Krishna Prasad           227         501020         M         Sithar G, D	S No	MEM	CAT	NAME
206         500918         M         Soapa Laskshmi G           207         500920         M         Deepa M         N           208         500921         M         Kaya Venkateswarlu           210         500921         M         Kaya Venkateswarlu           211         500922         M         Hanumanthu, Anita           211         500924         M         Amgoth, Laxman           213         500925         M         Kirpal Kour S           214         500926         M         Maloth, Cheenya           215         500927         M         Pujari, Sridhar           216         500966         M         Archana V           217         500966         M         Ranjeet Kumar           220         500967         M         Singh, Samayveer, Dr           221         500968         M         Attarde, Khemchandra Nathu           223         500971         M         Attarde, Khemchandra Nathu           223         500971         M         Atar, Gurpreet           226         501019         M         Mading, Ravi Kumar, Dr           229         501022         M         Unayagam, Rajinikanth           231		500916	М	Rajarapollu, Prachi Rohit
207         500919         M         Roopa Lakshmi G           208         500920         M         Peepa M N           209         500921         M         Kaya Venkateswarlu           210         500922         M         Hanumanthu, Anita           211         500924         M         Mongoth, Laxman           213         500925         M         Kirpal Kour S           214         500927         M         Pulari, Sridhar           215         500927         M         Pulari, Sridhar           216         500966         M         Rajeswari, M, Dr           219         500966         M         Rajeswari, M, Dr           219         500966         M         Snigh, Samayveer, Dr           221         500969         M         Attarde, Khemchandra Nathu           223         500970         M         Kaur, Gurpreet           226         501019         M         Matampalli, Krishna Prasad           227         501021         M         Matamgalli, Krishna Prasad           228         501021         M         Matagam, Rajinikanth           231         501024         M         Hande, Smita S           232				
209         500921         M         Kaya Venkateswarlu           210         500922         M         Hanumanthu, Anita           211         500924         M         Amgoth, Laxman           212         500924         M         Amgoth, Laxman           213         500925         M         Kirpal Kour S           214         500927         M         Pujari, Sridhar           215         500927         M         Pujari, Sridhar           216         500965         M         Rajeswari, M, Dr           219         500966         M         Ranjeet Kumar           220         500967         M         Singh, Samayveer, Dr           221         500968         M Shaikh, Elahi Imam           222         500971         M         Artarde, Khemchandra Nathu           223         500972         M         Karora, Varun           224         500971         M         Matargalii, Krishna Prasad           227         501021         M         Matargalii, Krishna Prasad           228         501021         M         Maddila, Ravi Kumar, Dr           238         501025         M         Rajput, Manita R           235 <td< td=""><td></td><td></td><td></td><td></td></td<>				
210         500922         M         Hanumanthu, Anita           211         500923         M         Vegi, Himaja           213         500925         M         Kirpal Kour S           214         500926         M         Pujari, Sridhar           215         500927         M         Pujari, Sridhar           216         500928         M         Archana V           217         500964         M         Sninivas B K           218         500965         M         Rajeswari, M, Dr           219         500966         M         Rainjeet Kumar           220         500967         M         Singh, Samayweer, Dr           221         500969         M         Attarde, Khemchandra Nathu           223         500970         M         Syed, Arnjed Ali           224         500191         M         Matampalli, Krishna Prasad           225         5001927         M         Saur, Gurpreet           226         501019         M         Matampalli, Krishna Prasad           227         501020         M         Sithar G, Dr           238         501025         M         Naju, Punet           231         501026 <td></td> <td></td> <td></td> <td></td>				
211         500923         M         Vegi, Himaja           212         500924         M         Amgoth, Laxman           213         500925         M         Kirpal Kour S           214         500926         M         Pujari, Sridhar           215         500927         M         Pujari, Sridhar           216         500964         M         Srinivas B K           217         500965         M         Raijeet Kumar           220         500967         M         Singh, Samayveer, Dr           221         500968         M         Shaikh, Elahi Imam           222         500967         M         Seq. Arniged Ali           223         500970         M         Syeel, Arniged Ali           224         500971         M         Artarde, Khemchandra Nathu           225         501020         M         Sridhar G, Dr           228         501021         M         Matampalli, Krishna Prasad           227         501022         M         Sutar, Anand Vijay           230         501023         M         Vinayagam, Rajinikanth           231         501024         M         Hadee, Smita S           232			М	
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214         500926         M         Pujari, Sridhar           215         500927         M         Pujari, Sridhar           216         500964         M         Srinivas B K           218         500965         M         Rajeswari, M, Dr           219         500966         M         Singh, Samayeer, Dr           221         500967         M         Singh, Samayeer, Dr           221         500968         M         Attarde, Khemchandra Nathu           223         500971         M         Atora, Varun           224         500971         M         Kaur, Gurpreet           225         500972         M         Kaur, Gurpreet           226         501019         M         Matampalli, Krishna Prasad           227         501020         M         Sridhar G, Dr           228         501021         M         Maddila, Ravi Kumar, Dr           230         501023         M         Vinayagam, Rajinikanth           231         501024         M         Pabarekar, Amruth Swapnil           233         501025         M         Vigneswari P           233         501024         M         Sudarmani R, Dr           234				
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218         500965         M         Ranjeet Kumar           219         500966         M         Singh, Samayveer, Dr           221         500968         M         Shaikh, Elahi Imam           222         500969         M         Attarde, Khemchandra Nathu           223         500970         M         Syed, Amjed Ali           224         500971         M         Arora, Varun           225         500972         M         Kaur, Gurpreet           226         501019         M         Maddila, Ravi Kumar, Dr           228         501022         M         Sutar, Anand Vijay           230         501023         M         Vinayagam, Rajinikanth           231         501024         M         Hande, Smita S           232         501025         M         Rajput, Manita R           233         501026         M         Upadhyaya, Prashant           234         501027         M         Dahiya, Puneet           235         501024         M         Sudarmani R, Dr           236         501055         M         Vigneswari P           239         501057         M         Chitra R           240         501057				
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221         500968         M         Shaikh, Elahi Imam           222         500970         M         Styed, Amjed Ali           223         500971         M         Atrora, Varun           224         500971         M         Kaur, Gurpreet           225         500972         M         Kaur, Gurpreet           226         501019         M         Matampalli, Krishna Prasad           227         501021         M         Maddila, Ravi Kumar, Dr           228         501023         M         Vinayagam, Rajinikanth           231         501024         M         Hande, Smita S           232         501025         M         Rajput, Manita R           233         501026         M         Pabarekar, Amruth Swapnil           234         501027         M         Dahiya, Puneet           235         501029         M         Upadhyaya, Prashant           235         501025         M         Vieneswari P           238         501057         M         Chitra R           241         501058         M         Sargunam B, Dr           242         501050         M         Veera, Vanitha D           243         5				
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223         500970         M         Syed, Amjed Ali           224         500971         M         Arora, Varun           225         500971         M         Kaur, Gurpreet           226         501019         M         Matampalli, Krishna Prasad           227         501020         M         Sridhar G, Dr           228         501021         M         Maddila, Ravi Kumar, Dr           229         501022         M         Sutar, Anand Vijay           230         501023         M         Vinayagam, Rajinikanth           231         501024         M         Hande, Smita S           232         501025         M         Rajput, Manita R           233         501026         M         Pabarekar, Amruth Swapnil           234         501027         M         Dahiya, Puneet           235         501026         M         Vigneswari P           233         501055         M         Vigneswari P           239         501056         M         Veera, Vanitha D           240         501057         M         Chitra R           241         501058         M         Sargunam B, Dr           242         501061				
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225         500972         M         Kaur, Gurpreet           226         501019         M         Matampalli, Krishna Prasad           227         501020         M         Sridhar G, Dr           228         501021         M         Maddila, Ravi Kumar, Dr           229         501023         M         Vinayagam, Rajinikanth           231         501024         M         Hande, Smita S           232         501025         M         Rajput, Manita R           233         501026         M         Pabarekar, Amruth Swapnil           234         501027         M         Dahiya, Puneet           235         501028         M         Setia, Mansi           236         501029         M         Upadhyaya, Prashant           237         501054         M         Sudarmani R, Dr           238         501055         M         Vigneswari P           239         501056         M         Veera, Vanitha D           240         501057         M         Chitra R           241         501058         M         Sargunam B, Dr           242         501060         M         Suthagar S           243         501060				Arora Varun
226         501019         M         Matampalli, Krishna Prasad           227         501020         M         Sridhar G, Dr           228         501021         M         Maddila, Ravi Kumar, Dr           229         501022         M         Sutar, Anand Vijay           230         501023         M         Vinayagam, Rajinikanth           231         501024         M         Hande, Smita S           232         501025         M         Raiput, Manita R           233         501026         M         Pabarekar, Amruth Swapnil           234         501027         M         Dahiya, Puneet           235         501028         M         Setia, Mansi           236         501057         M         Sudarmani R, Dr           238         501055         M         Vigneswari P           239         501056         M         Veera, Vanitha D           240         501057         M         Chitra R           241         501058         M         Sargunam B, Dr           242         501061         M         Karpe, Smita Amit           243         501062         M         Thrunavukkarasu G           244         501				
222         501020         M         Sridhar G, Dr           228         501021         M         Maddila, Ravi Kumar, Dr           229         501023         M         Vinayagam, Rajinikanth           231         501023         M         Vinayagam, Rajinikanth           231         501024         M         Hande, Smita S           232         501025         M         Rajput, Manita R           233         501026         M         Pabarekar, Amruth Swapnil           234         501027         M         Dahiya, Puneet           235         501028         M         Setia, Mansi           236         501054         M         Sudarmani R, Dr           238         501055         M         Vigneswari P           239         501056         M         Veera, Vanitha D           240         501057         M         Chitra R           241         501058         M         Sargunam B, Dr           242         501059         M         Bhujbal, Nikhil M           243         501061         M         Karpe, Smita Amit           245         501062         M         Thirunavukkarasu G           245         501063<				
228         501021         M         Maddila, Ravi Kumar, Dr           229         501021         M         Sutar, Anand Vijay           230         501023         M         Vinayagam, Rajinikanth           231         501024         M         Hande, Smita S           232         501025         M         Rajput, Manita R           233         501026         M         Pabarekar, Amruth Swapnil           234         501026         M         Setia, Mansi           235         501029         M         Upadhyaya, Prashant           236         501055         M         Vigneswari P           238         501055         M         Vigneswari P           239         501056         M         Veera, Vanitha D           240         501057         M         Chitra R           241         501058         M         Sargunam B, Dr           242         501050         M         Bhujbal, Nikhil M           243         501061         M         Karpe, Smita Amit           244         501061         M         Karpe, Smita Amit           245         501062         M         Dasmahapatra, Sudhendu           245         5				Sridhar G, Dr
230         501023         M         Vinayagam, Rajinikanth           231         501024         M         Hande, Smita S           232         501025         M         Rajput, Manita R           233         501026         M         Pabarekar, Amruth Swapnil           234         501027         M         Dahiya, Puneet           235         501028         M         Setia, Mansi           236         501054         M         Sudarmani R, Dr           237         501055         M         Vigneswari P           239         501056         M         Veera, Vanitha D           240         501057         M         Chitra R           241         501058         M         Sargunam B, Dr           242         501057         M         Chitra R           243         501061         M         Karpe, Smita Amit           243         501061         M         Karpe, Smita Amit           244         501063         M         Suthagar S           244         501064         M         Gopal, S B           244         501065         M         Dasmahapatra, Suddhendu           245         501070         M				
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232         501025         M         Rajput, Manita R           233         501026         M         Pabarekar, Amruth Swapnil           234         501027         M         Dahiya, Puneet           235         501028         M         Setia, Mansi           235         501029         M         Upadhyaya, Prashant           235         501054         M         Sudarmani R, Dr           238         501055         M         Vigeswari P           239         501056         M         Veera, Vanitha D           240         501057         M         Chitra R           241         501058         M         Sargunam B, Dr           242         501060         M         Shimpi, Deepali Chetan           243         501061         M         Karpe, Smita Amit           245         501062         M         Thirunavukkarasu G           246         501063         M         Suthagar S           247         501064         M         Gopal, S B           248         501065         M         Dasmahapatra, Sudhendu           249         501066         M         Verma, Pramod Kumar           250         S01077				Vinayagam, Rajinikanth
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241         501058         M         Sargunam B, Dr           242         501059         M         Bhujbal, Nikhil M           243         501060         M         Shimpi, Deepali Chetan           244         501061         M         Karpe, Smita Amit           245         501062         M         Thirunavukkarasu G           246         501063         M         Suthagar S           247         501065         M         Dasmahapatra, Suddhendu           248         501066         M         Verma, Pramod Kumar           250         501067         M         Rasadurai K, Dr           251         501170         M         Vijay Pal K           252         501171         M         Agarwal, Anup Kumar           253         501172         M         Karala, Srinivasa Kumar           254         501174         M         Behera, Rashmi           255         501176         M         Sreedevi S           257         501176         M         Saranya C           258         501177         M         Saranya C           259         501178         M         Das, Priyanka           260         501179 <t< td=""><td></td><td></td><td></td><td></td></t<>				
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248         501065         M         Dasmahapatra, Suddhendu           249         501066         M         Verma, Pramod Kumar           250         501067         M         Rasadurai K, Dr           251         501170         M         Vijay Pal K           252         501171         M         Agarwal, Anup Kumar           253         501172         M         Karala, Srinivasa Kumar           254         501174         M         Behera, Rashmi           255         501174         M         Behera, Rashmi           256         501175         M         Sreedevi S           257         501176         M         Chithamreddy, Rajitha           258         501177         M         Saranya C           259         501178         M         Das, Priyanka           260         501179         M         Karkara, Rahul           261         501180         M         Ramamurthy, Vishnu           262         501181         M         Srividhya G           263         501182         M         Md Hamid Ahmed Khan           264         501183         M         Vasudha N           265         501184 <td< td=""><td></td><td></td><td></td><td></td></td<>				
249         501066         M         Verma, Pramod Kumar           250         501067         M         Rasadurai K, Dr           251         501170         M         Vijay Pal K           252         501171         M         Agarwal, Anup Kumar           253         501172         M         Karala, Srinivasa Kumar           254         501173         M         Sharma, Ankur           255         501174         M         Behera, Rashmi           255         501175         M         Sreedevi S           255         501176         M         Chithamreddy, Rajitha           258         501177         M         Saranya C           259         501178         M         Das, Priyanka           260         501179         M         Karkara, Rahul           261         501180         M         Rammurthy, Vishnu           262         501181         M         Srividhya G           263         501182         M         Melamid Ahmed Khan           264         501183         M         Vasudha N           265         501184         M         Singh, Anju           266         501185         M				
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259         501178         M         Das, Priyanka           260         501179         M         Karkara, Rahul           261         501180         M         Ramamurthy, Vishnu           262         501181         M         Srividhya G           263         501182         M         Md Hamid Ahmed Khan           264         501183         M         Vasudha N           265         501184         M         Singh, Anju           266         501185         M         Bhardwaj, Nitin           267         501186         M         Savanth, Ashwini Sangram           268         501187         M         Sankpal, Priya Ramesh           269         501188         M         Chellamma K           270         501189         M         Bhaskar, Lakshmi           271         501190         M         Misra, Neha           272         501191         M         Kaushik, Priyanka           273         501192         M         Balaji G           274         501199         M         Sathyabhama B				
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S No	MEM	CAT	NAME
276	501201	М	Jayarajan R
277	501202	Μ	Chidambaram N
278	501203	M	Chandran, Rameshkumar, Dr
279	501204	M	Padmapriya D
280	501205	M	Jeneetha J
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283	501207	M	Govindarajan, Elumalai, Dr
284	501219	M	Kumar Jitendra
285	501220	M	Dashora, Harsh Kumar
286	500917	AM	Syeda, Musharraf Taskeen
287	500929	AM	Ashish Kumar, Dr
288	500930	AM	Gunda, Jahnavi
289	500931	AM	Racha, Priyanka
290	500932	AM	Vyas, Dharti Hiteshkumar
291	500933	AM	Usman, Adil
292	500934	AM	Pindoriya, Rajesh M
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294 295	500936	AM	Revandkar, Amey Subhash
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297	500939	AM	Rathod, Vishnu Hemant
299	500941	AM	Mahato, Somnath
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301	500943	AM	Verma, Pratibha
302	500944	AM	Katkar, Vaishali, Abhijeet
303	500945	AM	Shimpi, Nikhil Rajendra
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306	500973	AM	Patil, Rajesh Mahadev
307	500974	AM	Angadi, Aishwarya
308	500975	AM	Kemalkar, Aniket Kishor
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312	500978	AM	Jerripothula, Babu
313	500980	AM	Kanaparthy, Santosh Kumar
314	500981	AM	Madhusudan Reddy A
315	500982	AM	Shiva Prasad K
316	500983	AM	John William Carey M, Dr
317	500984	AM	Raghuveer L V S
318	500985	AM	Banginwar, Gaurav P
319	500986	AM	Phiske, Sachin G
320	500987	AM	Kale, Prajwal R
321	500988	AM	Sawant, Jitendra R
322	500989	AM	Gophane, Akash A
323	500990	AM	Likhare, Praneet W
324	500991	AM	Jagadeshwaran R
325 326	500992 500993	AM AM	Saleem Choudhary Pathan, Akram Khan A
320	500993	AM	Sali, Jayshree Harish
328	500995	AM	Khan, Rahatullah
329	500996	AM	Enugala, Swapna
330	500997	AM	Nasani, Karthik
331	500998	AM	Mavurapu, Swapna
332	500999	AM	Gangadhara, Sridhar
333	501000	AM	Gajula, Shruthi
334	501001	AM	Thokala, Bhagavan Reddy
335	501002	AM	Srujana, V
336	501003	AM	Palepu, Sai Chaitanya
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		AM	Pulluri, Anil Kumar
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338 339 340	501006 501030	AM AM	Lavanya V
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338 339 340 341 342 343	501006 501030 501031 501032 501033	AM AM AM AM	Lavanya V Ramalakshmi P Vyshali S Sarojini M
338 339 340 341 342 343 343 344 345	501006 501030 501031 501032	AM AM AM	Lavanya V Ramalakshmi P Vyshali S

No.         No.         No.           347         501037         AM         Pricilla Mary S           348         501038         AM         Baruah, Khanjan           349         501039         AM         Baruah, Khanjan           349         501039         AM         Lahan, Madhuryyajit           350         501040         AM         Borgohain, Papori           351         501041         AM         Sarma, Angshumi           352         501042         AM         Prakash Chandra           353         501044         AM         Mondhe, Parag Jayant           354         501044         AM         Partha, Saha           355         501045         AM         Partha, Saha           356         501045         AM         Samajdar, Dip Prakash, Dr           358         501053         AM         Ramoju, Vamshi           359         501068         AM         Kumar, Shariya, Sanjiy, Dr           361         501070         AM         Saxena, Parul           362         501071         AM         Archana K V           363         501072         AM         Pramar, Mahesh           364         501075         AM <th></th>	
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384 501093 AM Ramyea R	
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388 501097 AM Sharma, Nirupam	
389         501098         AM         Srinivasarao, Bollu           390         501099         AM         Upadhyay, Gaurav	
390         501099         AM         Upadhyay, Gaurav           391         501100         AM         Jaikarna, R	
392 501101 AM Harshaveena T	
393 501102 AM Devakumaran D	
394 501103 AM Shakya, Singh Abhishek	
395 501193 AM Satheesh Kumar S	
396 501209 AM Patricia, Trephena A	
397 501210 AM Arun Priya A	
398         501211         AM         Priyadarshini R           399         501221         AM         Kumar, Ghanshyam	
400 500879 A Rajasekaran K	
401 G00536 ORG Narayana Engg College, Gudur, Nello	re, A.P.
402 G00537 ORG Techno India Batanagar, Kolkata	
403 G00538 ORG Bharati Vidyapeeth's Institute o Computer App & Mgmt, New D	
404 G00539 ORG Kamala Institute of Technology Science, Karimnagar, Telangana	&
405 G00540 ORG Aditya College of Engineering, E Godavari, A.P.	
406 G00541 ORG Misrimal Navajee Munoth Jain Engineering College, Chennai	
407 G00542 ORG Technology & Engineering, Ran Reddy, dist-Telangana	ga
408 G00543 ORG St John College of Engieering & Management, Palghar, Maharas	
409 G00544 ORG Kuppam Engineering College, Chittoor, A.P.	

M= Member

AM = Associate Member

A = Associate

ORG = Organizational Member

# **IETE Welcomes New Secretary General**



Lt Col Dipankar Sen (F-135199) Secretary General IETE, w.e.f. 16th April 2018, is a dynamic professional, who has had experience of service both in the Indian Army as well as in the industry. With over 37 years of rich overseas & indigenous experience in business and general management, with excellent technical, analytical, managerial and administrative skills, he has headed independent establishment with over 1000 personnel and billion dollar worth of high tech equipment.

During his distinguished career, he led numerous global technological teams in collaboration with Industry leading to important outcomes & impact. Besides Indian Army, he has worked for Huawei Technologies, Nokia Siemens Network, TVS ICS & Airtel. While working for them the notable positions held by him were: Operations Director **Airtel India**; Operations Consultant **Airtel Africa**; Project Head **du Telecom UAE**; SME for **Virgin Mobile UK** 

Operations Consultant MTS India; Director of Operations Millicom Chad Africa; Operations Consultant Millicom Columbia; Head NOC MPT Myanmar; Transition Director MTN Congo Republic; Principal Technology Officer Airtel India; Circle Head Nokia Siemens; Head Planning and Operations at TVS ICS.

Lt Col Sen is a post graduate in Electronics and Communications. He has the certifications in: Green Belt Six Sigma; TM Forum Certified on- • Business Process Framework (etom) Distilled • Information Framework (SID) Distilled • Business Process Framework (etom) Level 2 and • Information Framework (SID) Level 2.

He brings with him three and a half decades of rich experience to IETE and we are pleased to welcome Lt Col Dipankar Sen as IETE's next Secretary General.

# **Skill Development Programmes Undertaken**

> A one day workshop on Computer Literacy for Women was organized under the aegis of women empowerment activities of WEEC committee at HO, New Delhi on 26th Feb 2018. A presentation was given by Shri Shubham Das Gupta, AMIETE, who enlightened the participants on the use of smartphones and internet and their role in digital transaction. He highlighted the opportunities of self employment in different sectors for women and guided them on the basic knowledge of computer including Internet, Internet-banking, online money transfer, email online shopping, online bill payment etc. He encouraged the women participants to develop their self-confidence by being aware of day to day digital activities. Shri Sharad Singh, Chairman, WEEC Committee and Shri V K Gupta, Co-Chairman, WEEC Committee and Shri Anil Sharma, Dy Secy, were also present during the programme. The Chairman said the presence of IETE Centres pan India were capable of catering the meet of imparting basic knowledge in computers as a part of digital literacy for the weaker section of the society especially women. He informed about the decision of IETE WEEC Committee wherein any Centre doing the best empowerment programme is likely to be given a



desktop computer during the year. The Chairman appealed that more Centres should come forward and organize such workshops on regular basis to meet the objective of the Committee. He also requested IETE Corporate Members, ISFs and Org Members to rise up to the occasion.

➤ A half-day workshop on **Information Security-Laws and Prevention** was organized by **Dr Anup Giridhar**, under the IETE Skill Development and Industrial Coordination Committee, at Integrated Institute of Technology, Dwarka, New Delhi on 3<sup>rd</sup> Apr 2018. During the session he highlighted basic safety measures that were required while using internet activities and motivated the students by quoting real case studies. About 100 students persuing Bachelors of Vocational Studies attended the workshop with



their faculties and HoD. The participants showed keen interest in the subject of **Cyber Security**. **Dr H Mahender**, Training and Placement Officer at Integrated Institute of Technology, assured the participants to soon organize a full-day workshop on their request. **Shri AV Patil**, Principal of the Institute, expressed his concern over the rising cyber crime rates in his address and emphasized the need for such Cyber Security trainings. He also thanked IETE for promoting free awareness programmes among the student community.

### **News from Centres**

#### The technical activities organized by IETE Centres/Sub-Centres during the past four months were as follows:

#### AHMEDABAD

• The Centre organized IETE Students' Day 2018 on 2nd Feb 2018. The Chairman IETE, Ahmedabad, read out the message of President IETE, Prof (Dr) K T V Reddy, for the day. Shri Apurba Bhattacharya, Dy Director ESSA, SAC- ISRO, delivered a special talk on "Nanoelectronics for RF and Optics" on use of various semi conductor technologies, electronics components, fabrication technologies and methods in various satellites programmes. A seminar on Entrepreneurship and Business development including Start-up was held by Chief Guest Shri G C Jain, Prominent Industrialist, MD, MCBS, inspiring students on the values of honesty, hard work, and commitment that could be used as tools for acquiring jobs in this competitive world. He told about the Scholarship programme offered by his NGO to Ph.D scholars. Speakers were given mementos as a token of gratitude. A Quiz for students was held and winners were rewarded. The vote of thanks was proposed by Shri R M Makwana, Secretary IETE Ahmedabad.

The National Science Day was celebrated on 23rd Feb 2018, wherein welcome address was delivered by the Centre Chairman, Shri V K Jain. A special talk on Climate Change and its Mitigation Challenges: Engineering Aspects by Dr Vijay K Agarwal, President- Centre for Climate Change and Clean Development Initiative, Ex-Chief Scientist, Remote Sensing, ISRO-SAC was organized The talk summarized the impact of global warming, its observable warming signals and probable solutions to mitigate it using a smart development approach. The Chief Guest Dr Ashok K Singhvi, President Gujarat Knowledge Society, delivered a talk on the Science and Technology in India. He highlighted the need for realignment of paradigms, priorities and procedures. Quiz for students was held. Mrs Smriti Dagur, Past President IETE, gave valuable suggestions in her address. About 30 members & students attended. Shri R M Makwana, Centre Hony Secretary proposed vote of thanks.



National Science Day observed at IETE Ahmedabad Centre

• 32<sup>nd</sup> National Convention of Computer Engineers on Application of IT in Rural Development was held under aegis

of IE (India), Gujarat Centre on 24th-25th Feb 2018. Six fellow members from the Centre including Shri V K Jain, Centre Chairman, Shri R M Makwana, Centre Hony Secy and Shri K K Mehta, Centre Hony Treasurer attended. The event was inaugurated by Shri Sisir Kumar Benerjee, President IE(I), and supported by IETE. The Centre fellow member- Dr K S Dasgupta, Dir DAICT, Gandhinagar, Ex Director IIST, ISRO Thiruvananthapuram, was facilitated for his outstanding contribution in IT. EC member & Convener of the program Shri Rajendra Gaikwad talked about IETE activities and explained the opportunities present in ISRO for students interested to work on innovative ideas for IT related activities. He guided the them how to write research papers. Shri G C Jain, EC member & renowned Industrialist, CEO of MCBS, Gandhinagar, delivered a special talk on Hybrid media technology based education and multimedia communication (ECMS) system for all rural and remote areas and gave a video presentation for the broadcast products manufactured by MCBS. A technical talk on Agro Advisory System by Dr Sanjay Chaudhary, Associate Dean, School of Engineering and Applied Science, Ahmedabad University, highlighted the services for farmers from government. He also discussed various free services, applications on farming for farmers. Papers were presented by students on applications of IT for rural education & rural development. Dr K G Maradia, past Chairman IETE Ahmedabad, Prof and HoD, EC, Govt Engg College, Gandhinagar, participated in the panel discussion and spoke on the importance of e-education, e-health, e governance, e library etc in rural areas and technology development platforms, importance of security of systems, algorithms requirements for rural ICT applications.

More than 50 corporate members from various societies, institutes, colleges and 150 students from various colleges participated. Valedictory session featured a speech by **Dr Manpreet Singh Manna**, Dir AIICT, Delhi, with views on educational system for future and skill development studies for rural development. Concluding remarks were given by Dr N P Gajjar, IEEE Computer society, and Fellow member IETE, **Dr H S Sharma** Past President IETE also participated in the Convention.

• International Women's Day was celebrated jointly with M G Science Institute, Ahmedabad on 10<sup>th</sup> Mar 2018. Smt Smriti Dagur, Past President IETE, graced the event as the Chief Guest. Dr BK Jain, Principal, M G Science Institute, Dr Alpana Shukla, Dr Jagruti Patel, M G Science Institute, participated. Smt Dagur delivering address quoted examples of eminent women personalities, while the keynote speaker Dr Alpana Shukla spoke on Time is now: Rural and Urban activists, transforming women's lives. About 100 students attended the event.

• Lecture conducted on 31<sup>st</sup> Mar 2018 was by **Shri S Hiriyanna**, Group Head, GOSAT Programme, ISAC/ISRO, Bangalore on the topic **Add Life to Your Life** and another talk was by **Shri Girish Joshi**, former Sr Scientific Officer, BARC, was on **Radioactivity** – **What People Should Know**. Apart from touching the basic theory, he explained the Alpha, Beta and Gama radiations and their effect,

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intensity levels, applications and told about the safe radiation dose limits, and to take care of radiations during the various routine activities during the life. About 25 members attended. **Smt Smriti Dagur**, Past President IETE, also addressed the gathering.

#### AMRAVATI

The Centre and ISF of Prof Ram Meghe Institute of Technology & Research, Badnera Amravati (PRMIT&R), jointly celebrated IETE Students' Day by organizing various programs including Intercollegiate quiz competition TRIVIA-18 on 1st Feb 2018, participated by 178 teams. Dr Lakshmikant Rathi- a noted psychiatrist delivered a talk on Key to Success. PRMIT&R's music club members presented an excellent music show during valedictory function in the presence of Dr NW Kale, Principal-incharge, PRMIT&R, Badnera; Dr AP Thakare, Governing Council member, IETE; Prof SP Patil, Prof in charge of Music Club; Dr P V Ingole, Centre Chairman and various coordinators from other institutes. The activities were conducted by ISF members and coordinated by Dr Nikkoo N Khalsa with the help of Prof Shailesh P Thakare, Prof Nilesh S Wadhe and Prof Ankush D Kadu under valuable guidance of Dr PV Ingole. Prof Abhijeet Kalbande from Badnera and Prof Nitesh B Bhawarkar from Shegaon, too provided sustained assistance.



Winner team being felicitated

#### BANGALORE

The pre-symposium tutorials were organized under the International Radar Symposium India (IRSI), during 12th-13<sup>th</sup> Dec 2017. The faculty for tutorials on 12 Dec'17 included: Dr Robert D Palmer, Dir, Advanced Radar Research Centre, Oklahoma University, USA, who spoke on Weather Radar: Advancements in Technology and Enable Scientific Discovery; Prof Hans Hellsten, SAAB Surveillance, Sweden, on-Foliage and Ground Penetration Synthetic Aperture Radar: Physics and Technology Overview; Dr Kiruba Rajan, Mc Master University, Canada, on- Tracking and Data Fusion; Mr Rick Gentile, Math works, USA, on- Modelling Multifunction Phased Array Radar Systems. The next day faculty were: Dr Eli Brookner, Raytheon, USA, on- Cognitive Adaptive Array Processing; Dr Willie NEL, CSIR, South Africa, on- Air and Maritime Target Detection; Dr Guiseppe Fabrizio, DST, Australia, on- OTH Radar; Dr PiotrSamcynski, Warsaw Institute of Technology, Poland, on-SAR/ISAR Imaging Techniques; Mr HERIAL Mohammad Javeed, Technical Manager Design Engineering & Visualization in Dassault Systems, on Multi-Disciplinary System Modeling & simulation using Model Based System Engineering Approach.



**Release of Souvenir during IRSI-2017** 

**IRSI-17** was inaugurated on 14<sup>th</sup> Dec 2017. **Dr S Christopher**, Chairman DRDO and Secretary, Dept of Defence R&D as the Chief Guest. **Ms J Manjula**, DS and DG(ECS), DRDO was the Guest of Honour. **Prof (Dr) KTV Reddy**, President IETE conferred the IETE-IRSI (83) Main Award to **Sri P Radhakrishna**, Associate Director, LRDE. **Dr S Pal**, Vice Chancellor, DIAT, Pune and Past President IETE read out the citations. In the associated Radar India Exhibition, there were 60 booths occupied by 40 companies. M/s Bharat Electronics, MACOM, Merlinhawk Aerospace, Pasquali, Astra Microwave Products. Wolfspeed, Microsemi, Microwave Vision Group, CST Germany were the sponsors of IRSI-17. Technical sessions on 15<sup>th</sup>-16<sup>th</sup> Dec 2017 comprised 12 Plenary Talks and 12 Technical Sessions followed by Industry presentations. 81 papers were presented.

• The Course on Internal Auditor Certification Training on AS9100D Quality Management System was conducted during 19<sup>th</sup>-20<sup>th</sup> Jan 2018, inaugurated by Shri Ghantayata Gouda, Scientist 'G', Assoc Director (Propulsion), CEMILAC, DRDO. Shri Sudarshan Rao P was the Course Director and Prof HS Bhatia, the Course coordinator. The course faculty consisted of Smt Naga Mallika B, Novo Star Mgmt System Solutions India Pvt Ltd. and Shri Manjunath NP, Moog India Technology Center.

In his keynote address, **Shri Gantayata Gouda** outlined the quality aspects of airborne systems and highlighted the need for a robust Quality Management System like AS9100D for mission critical industries like Aeronautics, Defence and Space technology. Training consisted of overview of aerospace standards, quality management system principles, and comprehensive coverage of all the clauses of AS9100D QMS, AS9101F, auditing and internal auditing process. The course covered the ISO9001 and AS9115A. **Shri Nagaraj N Murthy**, MD, M/s Moog India Technology Center, Bengaluru, Chief Guest in the Valedictory function delivered the key address. **Shri Mohan Raj S**, G.M. (Quality), M/s Bharat Electronics and **Shri Krishnan KM**, CMD, Uttunga Technologies, Pvt. Ltd., were the Guests of Honour, and they spoke on the occasion sharing their experiences in the Industry. **Shri G Ramesh**, Centre Chairman presided.

#### BHUBANESWAR

The Centre in collaboration with the ECE Dept of Gandhi Engineering College (GEC), Bhubaneswar, celebrated **IETE Students' Day 2018** on 1<sup>st</sup> Feb 2018, which started with a welcome address by Principal of GEC, **Dr Venugopal Rao**. He highlighted the importance of IETE and the advantages of being a member of IETE. **Dr Pravash Ranjan Tripathy**, HOD, ECE Dept, talked about various activities & programs organized by the ISF. The

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Chief Guest **Er Satyananda Naik**, Centre Chairman touched upon the importance of having subject knowledge, research activities and importance of attending various technical seminars and workshops. **Er A K Pahi**, Vice-Chairman motivated the students in remaining passionate, confident and enthusiastic. Shri S K Brahma, Coordinator, shared the information about the various program, activities and benefits of IETE. Er Manas Ranjan Panda felicitated all the dignitaries. Other events conducted by the students include: technical paper presentation, quiz competition, etc. Vote of thanks was proposed by Prof Vikash Ranjan, ECE dept.



IETE Students' Day celebrated at Bhubaneswar

#### CHANDIGARH

A Computer Awareness Programme on Computer Basic & Internet was organised from 14<sup>th</sup>-30<sup>th</sup> Dec 2017, to train the women in computer basics, word processing, spread sheet package, presentation package, internet uses, online payment of bills, recharge, internet banking etc. Same activities were repeated from 1<sup>st</sup>-15<sup>th</sup> Feb 2018 with 10 participants.



Computer Awareness Programme held at IETE Chandigarh Centre

• IETE Student's Day was celebrated on 13<sup>th</sup> Feb 2018 at ECE Dept, Chandigarh Engineering College (CEC), Landran. A technical quiz was organized by Dr Surender Singh Saini, Centre Hony Secretary and 13 teams participated. The winners of the quiz were Priyanka Vimal, Rahul Verma, Kunal Bakshi and Vikas Saini- the students of Ambala College of Engineering & Applied Research, Ambala. IETE-ISF Coordinator- Dr Parveen Singla, Dr Rinkesh Mittal and Ms Chanpreet Kaur were present during the event. The Director-Principal of Chandigarh Engineering College, Dr Vikas Dhawan lauded the efforts of all involved.

• ECE Dept of Chandigarh Engineering College (CEC), Landran organized a workshop on 22<sup>nd</sup>-23<sup>rd</sup> Feb 2018 on **Embedded system design using TI MSP 430 microcontroller development tools** by **Shri M Narender Babu**, Application Engineer, from Texas Instruments to give hands on training of the Texas Tools. Faculty of ECE and other Depts. Research scholars of CEC as well as Chandigarh University attended. Software as well as hardware sessions were provided in related topics.

#### CHENNAI

• The Centre & ISF at Kings Engineering College, Chennai jointly organized a workshop on **Persuasive Research Promotion Strategies** on 25<sup>th</sup> Nov 2017. 160 members attended the workshop.

• The Centre jointly with ISF at SRM University, Kattankulathur, Chennai, organized workshop on Modeling and Simulation of Next Generation Optical Communication and Networks during 30<sup>th</sup> Nov- 2<sup>nd</sup> Dec 2017. 175 members attended.

• On 23<sup>rd</sup> Dec 2018, the Centre & ISF at GKM College of Engineering and Technology, New Perungalathur Chennai, jointly organized - **Industry Institute Partnership** Council (**IIPC**), with an bjective of facilitating partnership between colleges and forums and industries to promote knowledge and training to students. Around 125 members attended this programme.

#### DELHI

• An Induction Meet was organized on 4<sup>th</sup> Oct 2017, wherein Dr Vikram Kumar Raja Ramanna, DRDO, Distinguished Fellow was invited as the Chief Guest.

• The Centre celebrated **IETE Foundation Day** on 15<sup>th</sup> Nov 2017 wherein **Shri Nibhesh Kr Das**, faculty member, spoke on "Data Science". Participation was good.

• **IETE Students' Day** was celebrated on 1<sup>st</sup> Feb 2018. The Chief Guest **Mrs Meenakshi Vij**, Centre EC Member was welcomed by **Shri B B Rishi**, Hony Secretary. A talk on "Techniques of Interview Handling" to motivate the students was delivered. The Centre also organized sports activities, debate competition on "Role of Women in Society", and Antakshri competition for the students.

• A one-day training program on **Women Empowerment** in **Computer Literacy** was organized on 22<sup>nd</sup> Feb 2018 by **Shri Shubhadeep Dasgupta,** Faculty. Computer literacy and awareness as stated under WEEC Committee was the objective of this programme. The necessity of gaining computer knowledge was told to the participants. Approximately 30 girls from Govt Sarvodaya Kanya Vidyalaya, Janakpuri, New Delhi attended. Shri Shubhadeep Dasgupta shared both the theoritocal and practical sessions during the training programme.



Participants from Govt Sarvodaya Kanya Vidyalaya, Janakpuri, New Delhi

#### DHARWAD

• A seminar was held on **Trends in VLSI/FPGA Design** was organized at Dept of ECE, SDM College of Engineering and

Technology (SDMCET), Dharwad on 17<sup>th</sup> Feb 2018. Shri Prasad & Shri Mastan Rao, Sr Engineer, BEL, Bangalore, were the resource persons. Principal, **Dr S B Vanakudre** inaugurated the programme. Shri Mastan Rao explained the fundamentals of VLSI & FPGA. Shri Prasad discussed latest trends in FPGA design & its application in communication systems. **Prof S S Kerur**, Sub-Centre Chairman, proposed the vote of thanks.

• A guest lecture on Semiconductor memories: Design & Testing, by Dr Harish Kittur, Professor, VLSI design, VIT Vellore, was arranged on 22<sup>nd</sup> Feb 2018, who explained about the study and analysis of various memory devices and deliberated on the need of understanding of working principles of memory circuits & their role in embedded systems. The HoD, Dr G A Bidkar, Co-ordinator Prof Jayashree & Prof S S Kerur, Sub-Centre Chairman, also attended.



Dr S S Kerur and Prof Navalgund and other faculty members with prize winners

• The Sub-Centre jointly with ISF at Dept of E&C, SDM College of Engineering and Technology (SDMCET), Dharwad, conducted a unique activity called **Programming Tricks** on 23<sup>rd</sup> Mar 2018. The event was graced by **Dr SS Kerur**, Centre Chairman and other dignitaries-**Prof SS Navalgund**, **Prof M Vijay Kumar**, **Prof Kotresh Marali** and **Prof Shrikanth Shirakol**. The activity was meant for 6<sup>th</sup> sem students of E&C discipline for testing their knowledge of C programming language. It featured multiple-choice questions having a total of 60 questions, and time allocated was of 60 minutes. More than 128 students participated, and benefitted. Top 3 performers were given certificates and cash prizes. Ms Shreya Kulhalli (1<sup>st</sup> prize went), Ms Uzma Soudagar (2<sup>nd</sup> prize) and Shri Ankur Manju & Ms Shaima Kazi (3<sup>rd</sup> prize). **Prof (Dr) GA Bidkar**, HoD, congratulated all the participants and winners on the occasion.

#### ERODE

• The Centre celebrated **IETE Students' Day** on 1st Feb 2018, wherein **Dr G Murugesan**, Centre Chairman welcomed all and read out the message of the day from President IETE. 130 students from ISFs (Kongu Engg College, Nandha Engg College, Nandha Institute of Technology, Mahendra Engg College, Gnanamani College of Technology, Excel College of Engg and Vellalar College of Engg and Technology) participated. Events like Quiz, Circuitix, Line Follower, Dare to Stand, C hunt were organized. Dr S Arumugam, Centre Hony Secy, EC members- Dr D Malthi, Dr S Sasikala, Shri K Kavin Kumar and ISF Faculty incharge, Kongu Engg College, were present. • The Centre organized a Skill Development Programme for the IETE Corporate members and ISF students during 14<sup>th</sup>-16<sup>th</sup> Feb 2017. **Shri S Sundaramoorthy**, CEO, Sunshiv Electronics Solution, and **Shri S Sathesh**, Production and Training Head Sunshiv Electronic Solutions, Coimbatore, handled the sessions for four days that included: Computer aided PCB (Printed Circuit Board) Designing; Manufacturing of single and Double sided PCBs; Assembling of PCBs; Trouble shooting of electronic PCB kits; Industrial hand on training for students to elevate them from engineer to industry ready engineer. 60 ISF students actively participated in this four-day program. Students trained in the skill development programme got placed in electronics oriented industries.

• A workshop on **How to clear competitive exams** was organized on 15<sup>th</sup> Mar 2018. About 53 members attended.

• Another **Skill Development Programme– Industry Ready Engineers** was organized during 15<sup>th</sup>-18<sup>th</sup> Feb 2018 with 51 members and on 2<sup>nd</sup>-4<sup>th</sup> Mar 2018 with 73 members in attendance.

• **IETE South Zone Innovators Meet 2K18** was organized by the centre at a short notice on 5<sup>th</sup> Apr 2018. Participants (97) from south zone, i.e., Tamil Nadu, Andhra, Telungana, Karnataka, Kerala and Pondichery, submitted their proposals in wireless technologies, communication, VLSI, embedded solution for agriculture and energy conservation etc. The review committee shortlisted 15 proposals for presentation but 14 were finally presented.



**IETE South Zone Innovators Meet 2K18** 

The meet was chaired by **Thiru A Venkatachalam**, Correspondent of Kongu Engineering College (KEC). **Dr G Murugesan**, Centre Chairman, delivered the welcome remarks. **Shri CK Haridas**, IETE South Zone Mentor, inaugurated the meet and in his address he informed about IETE's Innovation Meet programme under BoRIS (Board of Research Innovation and Skills). Dr S Arumugam, Centre Hony Secretary and Dr V Ashok, Centre Hony Treasurer felicitated the meet. The Jury comprising of **Prof (Dr) N Kasthuri**, ECE, KEC and **Prof S Satheesh**, HoD/ECE, NEC, selected the best three proposals from the 14 proposals presented. Certificates were distributed to the participants as a token of appreciation. This event was conducted successfully under the guidance of the south zone mentor, **Shri CK Haridas**.

#### GOA

The Sub-Centre celebrated IETE Students' Day on 7th Feb 2018 in the presence of Shri Malcolm Dsouza, Assoc Consultant, Tata Consultancy Services (TCS) as the Chief Guest and keynote speaker. Dr HG Virani, Sub-Centre Chairman, Ms Sonia Kuwelkar, Sub-Centre Hony Secretary and Shri Aniket Shet, Consultant, TCS were the other dignitaries on the dais, who addressed the gathering. Through his address on Internet of Things and Cyber Security, the Chief Guest gave an overview of the applications of IoT which included smart cities, healthcare, industrial and home automation etc. He explained IoT architecture, which consists of sensors, gateway and internet cloud. Various wireless communication technologies like 2G, 3G, 4G, WiFi, LORA, BLE, ZigBee etc were discussed including the significance of security. Shri Aniket Shet gave a demonstration on how to communicate between end sensors and gateway using TI microcontrollers and transceivers. Quiz competition was organised for the students, which was won by III year students Master Stephan Dcosta (1st position) and Master Sainath Uskaiker (2<sup>nd</sup> position). IETE faculty members from GEC and IETE student attended. Vote of thanks was proposed by Ms Purti Savardekar.

Women's Day was celebrated in collaboration with Womens' Cell of Goa College of Engineering, under the supervision of the Centre Chairman Dr HG Virani, and Prof Ujwala Phadke, Convener Women's Cell on 8th Mar 2018. Welcome address was delivered by College Principal, Dr Vinayak N Shet. Smt Sunita Sawant, Dy SP, Goa Police, graced the event as the chief guest. Addressing the audience, she apprised them of Sexual Harassment Act of Supreme Court and duties of the Internal Complaints Committee established almost at every organisation. She urged girl students to be more vigilant and take control of any untoward situation. The keynote speaker Dr Pankajam Vaidya, Consultant Cardiologist, spoke on the risks of heart diseases in women. She appealed women to adopt a healthy lifestyle with sufficient exercise and good diet practices. Vedanta Ltd., SESA Goa, awarded scholarships to 6 girl students of the college on this occasion. The scholarship covered their entire tuition fees and exam expenses. The representatives from Vedanta Ltd. Sesa Goa, present on the occasion were: Ms Leena Verenkar, Head, Corporate Affairs and Shri Vijay Kumar, Head Iron Ore, and they spoke about the various career opportunities for girl students at Vedanta Ltd.



Womens' Day celebration at Goa

#### HYDERABAD

The Centre celebrated 8<sup>th</sup> **IETE Students's Day** on 4<sup>th</sup> Feb 2018 by a Paper presentation contest on **IoT for Societal Development**, a technical quiz and technical cross-word puzzle. 300 students from different colleges participated. 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> cash prizes were awarded. The EC and GC Members attended the event. **Dr Gunashekar Reddy**, Vice President IETE enumerated the points from the President message. **Dr RVSS Avadhanulu**, founder and expert in Vedas spoke on the them subject as the Chief Guest.



Dignitaries on dais during IETE Students's Day celebrations

#### KAKINADA

A workshop was organised on the occasion of **IETE Student's Day** at Jawaharlal Nehru Technological University (JNTUK), Kakinada on 28<sup>th</sup> Feb 2018. A guest lecture on **Advanced Applications in Communications and Signal processing Using MATLAB** by **Shri J Prem Kumar**, Sr Application Engineer, Capricot Technologies Pvt Ltd, Hyderabad, in which the speaker outlined the details of was arranged that included the details of filter design using FDA tool in signal processing and DSP signal tool box, waveform generation and analysis, noise removal in RADAR signals, Analog and digital communication designing using communication system toolbox, Zigbee designing using communication toolbox, RTLSDR, FM signal receiving and demodulation using MATLAB, RADAR target classification using machine learning concepts. Workshop was attended by faculty and students of JNTUK.



IETE Student's Day celebrated at Jawaharlal Nehru Technological University (JNTUK), Kakinada

#### **KANPUR**

• The Centre and Indus Institute of Technology and Management, Kanpur, jointly celebrated **IETE Students' Day** on 3<sup>rd</sup> Feb 2018. It was inaugurated by **Er SK Gupta**, GM Project, BSNL Kanpur, Chief Guest and **Dr PK Manna**, Director IIT, Kanpur, Guest of Honour. The welcome address was delivered by **Dr Sanjay Kr Sharma**, Centre Vice-Chairman, while **Shri AK Jain**, Centre Hony Treasurer read out the president's message. **Er Ved Prakash Tiwari**, SDE-EB, BSNL Kanpur, was the keynote speaker for the day. Poster presentation and quiz were organized. **Shri Rachit Mishra**, won the poster presentation competition and **M Vaishali Saxena-** the quiz competition both students of 1<sup>st</sup> year. Vote of thanks was proposed by Er CP Verma, Centre Hony Secretary.

• About 30 members from PSIT Kanpur, AITH Kanpur and KIOT Kanpur, attended the **Womens' Day** programme that was celebrated by the Centre on 11<sup>th</sup> Mar 2018 with **Dr Poonam Maurya**, as of Chief Guest and **Dr Pragya Aragya**, HoD/Physics, DBS College, Kanpur as the Guest of Honour. The welcome address was delivered by **Dr Sanjay Kumar Sharma**, Centre Vice-Chairman. **Ms Diksha Dias** and **Ms Mridula Maurya**, both AP/Dr Ambedkar Institute of Technology for Handicapped (AITH), Kanpur were the keynote speakers. The speakers highlighted various problems of Indian women in their address like female foeticide, malnutrion, education, reservation, women security, women harassment at work place, gender discrimation, women honour, right to property, women role in decision making and suggested practical solutions. The Centre Hony Secy, proposed vote of thanks.



Womens' Day programme at Kanpur

#### **KOCHI**

• The ECE Dept of SAINTGITS College of Engg, in association with IETE Kochi Centre conducted a two-day workshop on 'Research Methodology, Writing Practices, Language and Soft Skills' on 18<sup>th</sup>-19<sup>th</sup> Jan 2018. It was inaugurated by Dr MV Rajesh Maliyeckal, Hony Secy Kochi Centre, who emphasized on the importance of research in academics in his address. The function was presided over by Prof Koshy Varghese, Sr Vice-Principal, SAINTGITS College of Engg. Dr Riboy Cheriyan, HoD/ECE, welcomed the dignitaries and Dr Shajimon K John, Vice Principal (Academics) introduced the chief guest. Attendees comprised of research scholars, academicians & PG scholars from various Arts & Engineering colleges.

The 1<sup>st</sup> technical session on **Research Methodology and Analysis** of Data Using Software Tools by Dr MV Rajesh Maliyeckal, gave an insight on the difference between research methodology and methods and various software tools used for research. The 2<sup>nd</sup> session on Patenting and IPR for Research by Adv. Febin James, Trademark Attorney & Partner, Legalites IP Services, Thrissur, highlighted the importance of patenting and IPR for research. The next session on Language Skills and Effective Communication for Researchers by Dr Elgin Alexander, Assoc. Prof, of the college, discussed about the various skills that researchers should have at the time of completion of their research. An informative session on Guidelines for Writing Effective Research Papers and Doctoral Thesis delivered by Dr Wilscy M, Dean (CS & IT), & Former Prof & HOD, Comp Sci, Kerala University, who pointed out the guidelines for writing effective journal papers. She enlightened the participants, how to write the quality research paper and get them published in research journal. The next technical session by Dr Soney C George, HOD, Prof in Chemistry, Deptt of Basic Sciences, Amal Jyothi College of Engineering, Kottayam, on Funding Sources at State, National and International level, shared various research funding schemes available for researchers and teachers at national & international levels. The concluding technical session on E-Resources & Reference Management Tools for Research by Ms Savithry T K, Tech Asstt, MG Univ Library, Kottayam, threw light on various e-resources available for effective research. Mementos and certificates were presented as a token of gratitude and appreciation to the speakers. Vote of thanks was delivered by Er Sreekala KS, Coordinator of the workshop.

The Dept of ECE, Vidya Academy of Science & Technology (VAST), Thrissur, organized a two-day national conference on Advanced Innovations in VLSI, Embedded Systems, Signal Processing & Communication from 9th-10th Mar 2018 in association with Kerala State Council for Science, Technology & Environment and IETE Kochi Centre. 20 delegates attended. Inauguration of the conference was by Prof K Vidyasagar, Joint Dir, Regional Directorate of Technical Education, Kothamangalam and Dr Sudha Balagopalan (Principal, VAST) presided. Dr S Swapna Kumar, HoD, ECE welcomed all dignitaries and delegates. Dr S Balagopalan in her presidential address, highlighted the relevance of organizing a national conference in multi-disciplinary research areas of Electronics & Communication. In the inaugural speech, Prof K Vidyasagar emphasized on the need of knowledge updating through national and international conferences. Dr M V Rajesh released the e-proceedings of AIVESC'18. Ms Sarika K T (AP ECE and Programme Co-ordinator) delivered the vote of thanks. The first session of the forenoon on first day was by Dr M V Rajesh, who explained the basics of neural networks, biological and artificcial networks and also touched upon their advantages and disadvantages of the network. After lunch break, presentations in Track-1 (VLSI & Embedded Systems) included papers from area of VLSI (six presentations in total). Dr Ramani Bai, HoD, CSE, VAST and Ms Shiny M I, AP/ECED, Jyothi Engineering College were in the conference chairs.



Participants and experts during national conference at Kochi

The second day started with the session on **Demystifying Robotics** by **Shri Sreekanth M**, CEO, Kabani Tech, Makerspace, who explained the basic features of robotics: sensors, monitors, analysis, communication, control and actuation.

Later, research scholars presented their papers in two parallel sessions. The Track 1 on VLSI & Embedded Systems chaired by Dr Binoy B Nair, Asstt Prof, Amritha Viswavidhyapeetam and Mr Sreekanth M had 9 papers in the area of Embedded Systems. While the Track 2 on Signal Processing & Communication chaired by Dr M S Sinith, Asstt Prof, RIT Kottayam and Dr S Swapna Kumar, HoD, ECE, VAST, had 5 presentations from the area of image processing. The remaining 4 papers of this track were chaired by Dr S Swapna Kumar and Ms Fetsy K Francis, AP/VAST. Best papers were acknowledged.

#### **KOLKATA**

The Centre organized a one-day seminar on Emerging Technologies in IT: Disruptions, Threats, Challenges & Opportunities on 21<sup>st</sup> Apr 2018. Shri S C Rudra, Centre Chairman, delivered the welcome address while a brief introduction about the event was given by Shri Partha Biswas, Centre Hony Treasurer. The entire program was moderated by Shri Anirban Guha, Program Chair & EC Member and attended by over 70 participants. Dr Yumnam Jayanta Singh, FIETE, Director NIELIT Kolkata, Shri Anindya Mitra, Director & Head IBM Kolkata, Ms Indrani Saha, AVP Technology, Cognizant, Kolkata, delivered the keynote addresses. The invited speakers included: Shri Ranojoy Adhikari, Accenture on Block Chain, Ms Arani Chakraborty, Personality Development & Psychologist, Ms Nayan Mitra, CSR 360 degree, Dr Chayan Sarkar, Scientist TCS Research Lab on IoT & Robotics; Dr AK Routh, FIETE and his team on AI & Robotics.



Seminar on Emerging Technologies in IT in progress

#### MHOW

An essay competition for Cadet's Training Wing courses on the topic **Changing the World through Artificial Intelligence** was organized on the occasion of **IETE Students' Day** on 1<sup>st</sup> Feb 2018 by the Sub-Centre. **Col John Prince**, Hony Secretary of the Sub-Centre was the resource person for the event. The programme was attended by the members of Cadet's Training Wing.



**Briefing the Cadets** 

#### MUMBAI

Under Women Empowerment Programme, the Centre in association with the ISF Colleges, Shivajirao S Jondhale College of Engineering (SSJCOE), Dombivli and M H Saboo Siddik College of Engineering, Byculla, Mumbai, conducted two programmes. A workshop on Use of Smartphones at SSJCOE, Dombivli, on 14th Feb 2018, where in Ms Uttara Gogate Hony Secy, IETE Mumbai Centre, delivered the welcome address. It was presided over by the Principal, Dr JW Bakal. The workshop was meant for the unskilled employees to acquaint them on the various smartphone related terms. The others present were: Shri PR Rodge (EC Member), Shri Satish Shrivastav (ISF Co-ordinator SSJCOE), Ms Minakshi Narwelkar (WDC incharge SSJCOE) and Shri Nitin Satao (NSS Incharge). Ms Rashmi Mahajan, ISF president, SSJCOE, Dombivli proposed vote of thanks. About 35 members attended. The second programme was a seminar on Women Empowerment at M H Saboo Siddik College of Engg, Byculla, on 27th Feb 2018, graced by Chief Guest Dr S S Thakur, Vice-Chairman IETE Mumbai Centre. Resource persons were- Shri Somnath Solanke, Nodal Officer of SBI; Shri Harshal Kadam, Asstt. Manager of SBI. The seminar was coordinated by Er Rihana Jamadar, Er Awij A R Shaikh and student members.

• Dr SN Merchant, Prof IITB, delivered the 7<sup>th</sup> Dr P B Parikh's Endowment Lecture on Advances in Communication Engg/Application of Signal Processing in Communication Engg on 5<sup>th</sup> Mar 2018. The event started with felicitation of Dr PB Parikh, Chief Guest. The other eminent persons present were-Dr SN Merchant, Keynote Speaker; Prof (Dr) KTV Reddy, President IETE; Dr JW Bakal, Ex-West Zone Co-ordinator; Mrs Sulochana Parikh and Dr Udhav Bhosle, Centre Chairman. Mrs Uttara Gogate gave the overview of the programme. Dr P B Parikh delivered his address very passionately. Prof SD Deshmukh, HoD, Prof SD Patil, Sr Fellow IETE, Prof Surendra Sutar, Faculty Coordinator and RGIT staff collectively contributed towards the success of the programme.



7<sup>th</sup> Dr P B Parikh's Endowment Lecture in progress

• Various activities were conducted by the Centre under the banner of OSCILLATION-2018' during Jan to Mar 2018 at various ISF colleges.

#### **NAGPUR**

Under Women Empowerment Program the Centre conducted a technical programme on 10<sup>th</sup> Mar 2018. Er AR Sawatkar, Centre Chairman presided over the event. The invited speakers were: Prof Snehal Laddha, RCOEM, Nagpur, who delivered a lecture on "Safety during Online Transctions"; Prof Minal Keote, YCCE, Nagpur spoke on "e-Commerce Security", while **Ms Namita Umale**, student of Cummins College of Engineering for Women, Nagpur, spoke on "Social Networking & Precautions". The proceedings were conducted by Er Lochan Keote. Prof Ajay Tinguria, Hony Treasurer proposed vote of thanks. Er SP Gorowara along with students and staff of IETE Nagpur, participated.



Invited speakers with Er SP Gorowara and staff of IETE Nagpur Centre

#### NASHIK

ISF at Dept of CS, K K Wagh Senior College, Nashik organised *e-Merge 2018* on 16<sup>th</sup> Jan 2018, which was inaugurated by Shri Chandrakant Sohandani, Director of Netwin Info Solution and Shri Shyam Kuwar, HR manager of same company. Shri Sohandani in his address outlined the concepts of data science, cryptonalysis, blockchain etc. Prof AH Bendale, HoD briefed on the activities held under the Dept forum. Principal Dr VM Sewlikar delivered the welcome address. The programme included number of competitions like: Poster & Model; Technical Photo Booths; Technical quiz; PPT presentations and Short Films; Website designing using HTML; Pair Coding; Programming; Group discussion/Debates; Puzzle game; Technical dumsheraj; Techno Ad-Mad Show; Counter strike etc,. The participation was overwhelming. Winners adjudged were given recognition.



**Dignitaries inaugurating e-Merge 2018** 

Shri Nitin Mahajan, GM Telecom Nashik and Shri SA Bhadane, SDE Telecom Nashik, were the invited diginataries for the valedictory session during the prize distribution ceremony. Dr VM Sewlikar, Principal welcomed the gathering during the session. Shri SA Badhane delivering his address applauded the efforts made in organizing the event and briefed the participants on available opportunities at BSNL. Shri Nitin Mahajan in his motivational speech urged students to work hard and innovate in order to achieve success in life.

• Commemorating **IETE Students' Day** the Sub-Centre organized an essay competition at K K Wagh Institute of Engineering Education & Research (KKWIEER), Nashik. Students were asked to write an essay in 3000 words on the chosen topics. The winners were: Shri Venkatesh Jemse, KKWIEER, Nashik (1<sup>st</sup> positon); Ms Sonal Varade, AVCOE, Sanmgamner (2<sup>nd</sup> position) and Ms Snehal Joshi, KKWIEER (3<sup>rd</sup> position). The students were felicitated by **Shri Nitin Mahajan**, GM, BSNL, Nashik and **Shri Pradeep Shenoy**, Sr Divisional Manager, LIC, Nashik. The entire competition was held under the supervision of **Dr DM Chandawadkar**, Sub-Centre Chairman and Dr SS Morade, Sub-Centre Hony Secy.

#### **NAVI MUMBAI**

• The Centre organized a national workshop on **Design and Analysis of Antennas and Microwave Passive Devices using HFSS** on 3<sup>rd</sup>-5<sup>th</sup> Jan 2018 at Saraswati College of Engineering, Kharghar, Navi Mumbai.

• Other events held by/under the Centre included: a one-day seminar on Nanotechnology on 24<sup>th</sup> Jan 2018; IETE Student's Day celebration on 1<sup>st</sup> Feb 2018 and a two-day workshop on 2G, 3G, 4G on 23<sup>rd</sup> & 25<sup>th</sup> Feb 2018 with Terna Engineering College, Nerul.



Student's Day celebration at IETE Navi Mumbai

#### **NOIDA**

• The Centre organized the 5<sup>th</sup> Col IM Chhabra Endowment Lecture on 25<sup>th</sup> Nov 2017, delivered by the illustrious member of the Institution, Lt Gen (Dr) AKS Chandele, PVSM, AVSM (Retd), Immediate Past President, IETE. Speaking on the topic Smart Cities, he expounded the reality of rapid urbanisation which is irreversible and gaining momentum. Presenting the statistics, he said by 2050 there would be 10,000 cities with 100 Metros (million plus) and that surge would give rise to additional challenges, especially with respect to: housing, infrastructure, transportation, energy, employment, environment, healthcare & education. To meet these challenges, he said the Govt and civic bodies need to take proactive measures. He further added that conceptualization of Smart City varies from city to city and country to country, depending on the level of development, willingness to change and reform, resources and aspirations of the city residents. A world class benchmark for a smart city design is to build and operate environmentally, economically and socially sustainable city. Talking of pillars of Smart Cities, he touched upon (a) Institutional Infrastructure; (b) Physical Infrastructure (c) Social Infrastructure and (d) Economic Infrastructure.

The Chief Guest on the occasion was Lt Gen TJS Gill, PVSM, former DG Ordinance Services. The talk delivered created a lot of interest among the audience and a lot of question were raised. About 60 persons attended the talk.



**Dignitaries on dais during Endowment Lecture** 

• A technical lecture on **IoT in Healthcare** was arranged on 31<sup>st</sup> Mar 2018 by **Shri Manjit Singh**, ex-General Manager BSNL. Fifteen members including past presidents -**Lt Gen Ashok Agarawal PVSM (Retd)** and **Lt Gen (Dr) AKS Chandele**, **PVSM, AVSM (Retd)** attended the lecture. The speaker enumerated the advantages of IoT in Healthcare especially for patients and hospitals like providing remote diagnosis, assistance and continuous monitoring of patient, providing early detection of critical signs and Geriatric patient support, etc. He said though the country has adopted some of these digital technologies in healthcare but a lot of improvement is still required.

#### PALAKKAD

• A joint seminar was conducted with the Al–Ameen College of Engineering, Ladies wing "Femmeauroe", Kulappully and IETE Palakkad Centre on **Social Security** for women empowerment on 19<sup>th</sup> Jan 2018. **Dr K Geetha**, Centre Chairperson and Principal of the College, presided over the function. Ms V Sneha, Secretary, Femmeauroe, gave the welcome address. **Shri P Prem Nath**, Senior Asstt Public Prosecutor and Secretary Viswas, delivered an inspiring speech on **Social Security**. **Shri C K Haridas**, South Zone Mentor delivered the felicitation address. Smt Bindu, HoD/ECE presented a memento to the runner up of Wushu Championship- Ms K Athira of Calicut University on the occasion. Vote of thanks was proposed by Ms C Haritha, Vice Chairperson College Union, during the concluding session.

• **Prof Prashant R Nair**, Vice Chairman, CSE, Deptt Amrita Viswa Vidya Peethom, Coimbatore, inaugurated the 3<sup>rd</sup> Engineering Students' Convention on 17<sup>th</sup> Feb 2018. In his address, he pointed out the growing importance of internet and role of Big Data in the digital world. **Dr K Geetha**, Centre Chairperson, presided over the programme. **Shri C K Haridas**, IETE South Zone Mentor outlined the students' role in nation building. **Prof C Pradip** delivered the welcome address. **Prof B Sureshkumar**, **Shri Beji K Mathew** also addressed the gathering. Over 80 students and IETE corporate members participated. The first three winners of the Paper presentation and Quiz competitions were presented awards. Participants from four engg colleges in Palakkad were also given the participation certificates.

• The programme of **IETE Students' Day** was presided over by **Dr K Geetha**, Chairperson on  $17^{\text{th}}$  Feb 2018. The programmes organized on the occasion were- quiz competition & paper presentation. The message from IETE President was read out by **Shri C K Haridas**. The first three winners of both the competitions were honoured. Vote of thanks was proposed by Prof B Suresh Kumar, Hony Treasurer of the Centre.

• The 2<sup>nd</sup> Women Empowerment Program by the Centre was jointly held with Internal Complaints Committee (ICC) and Women Development Cell of the NSS College of Engg on 27<sup>th</sup> Feb 2018. Dr T Sudha, Principal, presided over the function. A lecture on the role of Social Justice and Cyber Security for Women Empowerment was delivered by Shri Prem Nath. Shri C K Haridas, IETE South Zone Mentor, Dr Maya Devi, Dr Raji, Ms Aparna Jayakumar and Ms Namitha Narayanan also addressed the gathering. An exhibition of mural painting, pencil sketches and embroidery was also organized on the occasion. Function concluded with the dance program by Ms K Deepika.

• The 3<sup>rd</sup> and 4<sup>th</sup> programmes on **Women Empowerment: Role** of Social Justice and Cyber Security was jointly conducted with Al Ameen Engineering College and Nehru College of Engineering and Research Centre on 16<sup>th</sup> Mar 2018. During the proceedings Shri P Prem Nath cited some women harassment incidents and informed about the available cyber security laws that could be used by women for self-protection. Shri C K Haridas, also participated. Dr K Geetha Principal, Al Ameen Engineering College, Prof Bindu, Dr S Raj Kumar, HoD/ECE, NCERC, Pambadi, Asst Prof Jithin Jose Kallada, ISF Coordinator, Shri V Vishal Kumar, Joint Secretary ISF were the other speakers on the occasion.



Women Empowerment programme at Nehru College of Engineering & Research Centre, Palakkad

#### PILANI

• A special lecture was arranged on Earthquake Early Warning System for Northern India by Dr Ashok Kumar, Prof (Retd), IIT Roorkee on 27<sup>th</sup> Oct 2017.

• A workshop **Build Yourself: Workshop for Women** was organized on 15<sup>th</sup> Dec 2017 by ISF BKBIET, Pilani under IETE Pilani Centre for making women aware of their rights and informing them on subjects like cyber security, women empowerment, women rights. Talks delivered were by **Dr Sumitra Singh**, Senior Scientist, CSIR-CEERI, Pilani, on "Women Empowerment"; **Ms Bhagyashree**, AP/BKBIHE, Pilani on Security Issues while using social sites and e-commerce. **Ms Muskan Boran**, CS-III student gave a presentation on women rights as enshrined in our constitution; **Mrs Booma Natrajan**, Principal, Smt. Jamuna Mishra Academy, took to speak on the subject of frauds in big cities by taking personal information from social sites; **Mrs Madhu Sharma**, Director, Brain Star Education Pvt. Ltd. encouraged the women to build up their self-confidence during her address. **Mrs Meenakshi**, Owner, Pink & Blue School, Pilani and **Mrs Sunita**, who run beautician training centers shared their experiences of their lives' struggle; **Dr Suman Mishra**, President, Smt Jamuna Mishra Academy, enlightened the audience on balanced diet for women. Around 50 ladies attended, enjoyed and benefitted from this workshop.

• **IETE Students' Day** was celebrated on 1<sup>st</sup> Feb 2018 at ISF of BK Birla Institute of Engineering and Technology (BKBIET) with more than 50 student members of all engineering branches in attendance. The program was graced by **Dr P S Bhatnagar**, Dir, BKBIET, as the Chief Guest; **Dr Manusmirti Sharma**, Asst Prof English Dept. the Guest of Honour; and Dr Krishna Meel, Faculty Advisor, ISF-BKBIET. The message from IETE President was read by Ms Muskan Boran on the occasion.

• Nine teams of student participants registered for the Scientific Model Competition organized for senior school students at CEERI Vidya Mandir on 10<sup>th</sup> Feb 2018. Three best models were recognized and the winning teams were conferred cash awards of Rs 10,000, Rs 5000 and Rs 3000 respectively. The model entitled Automatic high and low beam head light to avoid accident from Birla ShishuVihar, Pilani, bagged the 1<sup>st</sup> prize. Prof Santanu Chaudhury, Director CSIR-CEERI, the Chief Guest gave away the awards, running trophies, certificates of participation to the students and honoured mentoring teachers.



Chief Guest Prof Santanu Chaudhury along with Mrs Lipika Dey and Dr Ajay Agarwal inspecting and interacting with students at a model display

#### PUNE

• A workshop on Emerging Trends in Next Generation Wireless Communication was conducted by the Dept of ETE, MIT Academy of Engineering, Pune, during 16<sup>th</sup>-17<sup>th</sup> Mar 2018, sponsored by Savitribai Phule, Pune University under Quality Improvement Progamme and technically supported by IETE. The workshop was a collection of recent and advanced next generation wireless technologies, cognitive networking, a massive MIMO technique and applications involving game theory and machine learning. Prof GS Mani, Chair, IEEE Pune section, inaugurated the session and spoke on 'Artificial Intelligence as an enabler of future communication systems'. Prof (Dr) Shabbir N Merchant, IIT Bombay, spoke on 'Advances in Communication Engineering'. Dr Prakash H Patil, Vice-chairman dwelled on 'Trends in Next Generation Wireless Networks'. Dr Bharat Chaudhari, HoD E&TC, MIT World Peace University delivered a lecture on 'SDR and LoRA'. Prof (Dr) Preetida Jani, SP College, Mumbai spoke on 'Game Theory' whereas Prof (Dr) Debashis Adhikari, E&TC, MIT Academy of Engineering, Pune dwelled on 'Evolution in MIMO System Architecture for Next Generation Wireless Communication'. The workshop was a success.

• Inauguration function for release of Centre's -*IETE National Journal of Innovation & Research* Vol. IV, Issue I, June 2016 was held on 24<sup>th</sup> Mar 2018 at Dr DY Patil Institute of Technology by President IETE, **Prof (Dr) KTV Reddy** and other dignitaries that included: **Dr SN Mali**, Principal, DIT, Guest of Honour; **Shri GK Dawara**, Centre Chairman; **Dr SR Jog**, Chairperson, NJIR; **Prof SK Khedkar**, Governing Council Member; **Shri KR Shende**, Centre Hony Secy. The EC Members present were:**Dr PH Patil**, Centre Vice-Chairman; **Shri RV Datar**, Centre Past Chairman IETE; **Mrs Leena Bokil**, Mrs Suvarna Kulkarni and Shri Sagar Vanarse. Reviewers **Dr AV Kulkarni, Dr Mithra V, Dr PH Patil. Dr Yogesh Angal** were felicitated. The vote of thanks was proposed by Shri KR Shende. Authors presented an overview of their research works.



Release of IETE National Journal of Innovation & Research, Pune

On the same day **International Women's Day** was organised by the Centre in the presence of above dignitaries. The speaker for this event was **Ms Meera Badve**, Founder Director, Niwant Andh Mukta Vikasalaya (NAMV), Pune. She talked about her working experience at the NGO, meant for visually challenged people and now is converted into 'Special Vision' team Niwant. She talked about the role of her team of special vision people and how they were helping the society. One of the members of the team shared her journey from student to an employee of the Niwant Team, which was lauded by all and President IETE appreciated the efforts made by women in such cases.

#### RAJKOT

• The Rajkot Centre organized a Quiz competition to celebrate IETE Students' Day on 4<sup>th</sup> Feb 2018 at Dept of Electronics, Saurashtra University, Rajkot. 50 members participated in the competition. The welcome address was delivered by Dr HN Pandya, Centre Chairman. Ms Pintukumari Bera, AP/CS, Christ College Rajkot, moderated the quiz competition, which was divided in 5 different phases. Er CM Devani, IBS (Retd), Founder Centre Chairman illuminated the students on the activities of IETE. Dr HN Pandya appreciated the number of student participation. Dr RD Mehta, Centre Hony Secretary & Dr Atul Gonsai, Centre Hony Treasurer also addressed the students. Ms Amee K Daiya, EC member, read out the message for the day by President IETE. Career opportunities & group discussion for students were also conducted. Participants were presented certificates and the winners were acknowledged.

• The Centre celebrated **Women's Day** by arranging a workshop on "Food Safety" on 8<sup>th</sup> Mar 2018 in association with R K Analytical Food Laboratory, Gujarat wherein **Dr PP Rathod**, Health Officer- Rajkot Municipal Corporation (RMC) was the Chief Guest. **Dr HN Pandya**, Centre Chairman welcomed the gathering. **Shri Amit Panchal**, Designated Officer Food, Dept RMC, **Shri Kiranbhai Vasvelia**, R K Analytical Food Laboratory and **Shri HG Moliya**, Food Safety Officer, RMC were the other dignitaries present on the occasion. About 36 women participated. Shri K Vasavelia demonstrated how to check chemicals in the food content with equipments and other parameters. Shri Amit Panchal & Shri HG Moliya highlighted the food safety legal norms. Vote of thanks was proposed by Er S M Suchday, EC member of the Centre.



Women's Day being celebrated at IETE Rajkot Centre

#### RANCHI

**3<sup>rd</sup> International Conference** on Nanoelectronics, Circuits & Communication Systems (NCCS-2017), was organized by the Centre in association with Indian Society of VLSI Education, Ranchi during 11<sup>th</sup>-12<sup>th</sup> Nov 2017, covering advances in MEMS & Nanoelectronics, Wireless Communications, Optical Communication, Instrumentation, Signal Processing, Internet of Things, Image processing, Bioengineering, Green Energy, Hybrid Vehicles, Environmental Science, Weather Forecasting, Cloud Computing, Renewable Energy, RFID, CMOS Sensors, Actuators, Transducers, Telemetry Systems, Embedded Systems, Sensors Network Applications in Mines etc. From a total of 300 papers 58 good quality papers were selected.

Prominent luminaries present were: Dr Gopal Pathak Vice Chancellor Jharkhand Technical University Ranchi, as Chief Guest and Guest of Honours : Dr KK Thakur CGMT BSNL Ranchi, Dr AA Khan Former VC Ranchi University, Dr RK Singh Former Centre Chairman, Shri Sanjay Kumar Jha, Past Centre Chairman & CE Engr, Govt of Jharkhand; Dr PR Thakura, Prof BIT Mesra & EC Member ISVE & IETE Ranchi, Shri Ajay Kumar, Centre Chairman & AGM (Admin) ARTTC BSNL Ranchi, Dr Anand Kumar Thakur, Faculty, SSMC RU & Organizing Secretary, Dr Raj Kumar Singh, faculty RLSY RU & Convenor, Dr Vijay Nath faculty BIT Mesra Ranchi & General Chair. Dr S Jit, Prof, IIT, BHU, delivered the keynote address on Nanoelectronics and its future prospectives. Dr Gopal Pathak emphasized on the importance of research in new technology and its applications in society and dwelled upon how without quality research, technical education cannot grow. Welcome address was by Shri Ajay Kumar while Dr Vijay Nath gave the technical details of the conference.



Dignitaries releasing the souvenir. Seen from L to R: Dr Vijay Nath, Shri Ajay Kumar, Dr RK Singh, Dr Gopal Pathak, Dr KK Thakur, Dr S Jit, Dr Raj Kumar Singh

#### SHIMOGA

A one-day workshop on Internet Awareness and Digital Transactions for Women and Senior Citizens was conducted in association with Dept of TE&EE, JNN College of Engineering (JNNCE), Shimoga on 3<sup>rd</sup> Feb 2018. The Chief Guest Prof HK Harish, Centre Chairman inaugurated the programme. It was presided over by Dr LK Shreepathi, Vice Principal, JNNCE. Other eminent personalities present were: Dr P Manjunatha, Centre Hony Secretary, Dr Usha Devi, MB HoD/TE. The Chief Guest in his address elaborated on the need for internet literacy when India aspires taking digital leap with plans of connecting the uninitiated through broadband highways. He mentioned that parallel programmes were being undertaken by the Shimoga Centre in this direction from past several years regularly. Dr LK Shreepathi appreciated women interest in such awareness programme. He mentioned about the importance of transacting digitally and marketing their product as part of e-commerce. He also urged women to use government enabled payment systems for online transactions. Government enabled payment systems like\*99#, Rupay, UPI, BHIM, Aadhaar enabled payment systems among others for security and convenience in financial transactions were demonstrated. Virtual Newspapers, Radio/ TV channels, e-commerce, online money transfer, e-mail, online



Internet Awareness and Digital Transactions programme for Women and Senior Citizens conducted by the Centre

shopping, online bill payment, IRCTC booking, Internet Banking, PayTM, WhatsApp call apps were taught in detail. Shri HR Rajappa, Joint Director of district industries was the chief guest for the valedictory function. Mrs Aparna and Mrs Nalina S B, coordinated the workshop.

#### SIVAKASI

• The 4<sup>th</sup> **Techno Blaze** (2017-18) was organized on 10<sup>th</sup> Jan 2018 at Dept of ECE, Mepco Schlenk Engineering College (MSEC), Sivakasi by **Shri G Yogarajan**, Assoc Prof, IT Dept on **Research Avenues in Energy Efficient Wireless Sensor Networks**. He discussed the WSN Applications in real environment such as body area network (Health), infrastructure, military, industry and agriculture. He elucidated the factors affecting quality of service and clustering in WSN and pointed out that internet connected devices are slowly outnumbering the people population. **Dr R Ahila Priyadharshini**, Centre Hony Secretary proposed the vote of thanks. Prof G Prema, presented the mementos. About 30 IETE corporate members attended.

• The 5<sup>th</sup> Techno Blaze was on Multi carrier Modulation Techniques in wireless applications on 10<sup>th</sup> Apr 2018 by Prof G Prema, Centre Chairperson & Prof/ECE, MSEC. The speaker discussed the issues related to the high data rate user data through the randomly varying channel, the factors affecting the quality of service and error in the propagation, scenario of smart phones and their requirements, solution in terms of multi carrier modulation, the implementation issues of non overlapping and overlapping sub carriers. The speaker concluded the session by discussing the applications where MCM is used and their specifications and data rate achievable. Dr R Ahila Priyadharshini, Centre Hony Secretary, proposed the vote of thanks and Dr R Shantha Selva Kumari, Centre Past Chairperson, presented a memento to the speaker. The programme was attended by about 40 IETE Corporate members.

IETE Students' Day was inaugurated by Dr R Shantha Selva Kumari, Sr Prof and HoD/ECE, Mepco Schlenk Engineering College on 7th Feb 2018. Ms S Krishnaveni, ISF Member, delivered the welcome address. Ms A Mirnalini, ISF coordinator read out the IETE President's message for the day. The programme was co-ordinated by Shri A Kamaraj, AP/ECE and Ms V Gnanalakshmi, AP/ECE and events organized included: technical paper presentation, circuit debugging, dual cruncher, quiz and best manager. In the paper presentation, 13 technical papers were presented in various domains of ET and its applications. Presentations were judged by Dr W Sylvia Lilly Jebarani, Assoc Prof, Dept ECE. The winners of various events were: Paper presentation: Ms Sneha Ganeshram and Ms M Padmavathi, Ms M Roselin Jeya Sudha and Ms V Rajamaheswari (1st position) and Ms K Divya Bharathi (2<sup>nd</sup> position). Quiz: Ms L Heartlin Sijitha and Ms T Vinoba(winners) and Ms Sneha Ganeshram and Ms S B Bhuvaneshwari (runner ups). In Circuit Debugging: Ms P Malavikha and Ms P Iswarya (1st prize) and Shri Y Sivakumar and Shri R Muhibalan (2<sup>nd</sup> position). In Dual Cruncher: V Pradeepaa and P Prabhavathy (1st prize) and Ms M Sheerin Fathima and R Soundariya (2<sup>nd</sup> prize). Best Manager Contest: Shri V Benil

Sam (winner). Shri A Kamaraj, AP/Mepco Schlenk Engineering College, Sivakasi, distributed the certificates.

A two-day technical seminar on Research Issues in Embedded Robotics was organized on 2<sup>nd</sup>-3<sup>rd</sup> Mar 2018 at MSEC, Sivakasi, spread over eight technical sessions. On the first day, 1st and 2<sup>nd</sup> technical sessions were moderated by Shri Kathiresh Mayilsamy, AP/EEE, PSG College of Technology, Coimbatore. He talked on Embedded Systems and its Application in Robotics and explained the concepts in a simple way. Dr J Senthil Kumar, AP/ECE, MSEC, Sivakasi, delivered a lecture on Introduction to Robotics and its Application. The 4th session was by Shri G Sivasankar, AP/ECE, MSEC, Sivakasi on Kinematics of Robotics and Robo Analyzer, wherein he took lab sessions also. On the second day Shri G Sivasankar, AP/ECE, MSEC, Sivakasi, delivered a lecture on Mobile Robotics and its Application. Shri J Dani Regan Vivek, AP / ECE, enlightened the participants with Multi robot Co-ordination & Control, illustrating the control of multirobotics. The 7th session was handled by Shri M Arun, AP(Sr)/ECE, on ARM Processor Architecture & Programming, explaining the architecture of ARM processor and its programming aspects. In the concluding session, Shri D Ramkumar, IElec Systems, Tirunelveli, conducted handson session on ARM Processor Programming. During the valedictory function, certificates were issued by Prof G Prema, Centre Chairperson, to the 40 participants from 6 different engg colleges of the state. Dr W Sylvia Lilly Jebarani, Centre Hony Treasurer, proposed the vote of thanks.



Prof G Prema, Centre Chairperson distributing certificates to the participants

#### SURAT

• The first Orientation Session for UG students **was organized** on 30<sup>th</sup> Oct 2017 at ISF, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat. Presentations were given by ISF Executive Committee who explained about the importance & benefits of becoming ISF members. They also outlined future activities of ISF. About 90 students attended.

• The Sub-Centre celebrated **IETE Foundation Day** on 11<sup>th</sup> Nov 2017 in association with ISF, SVNIT. The message by IETE President was read by **Dr Niteen Patel**, Sub-Centre Chairman, followed by an expert lecture on **Big Data Computation** by **Dr U P Rao**, AP/SVNIT. 'Tronix Quiz' event, where general electronics based quiz was conducted for students of B Tech 1<sup>st</sup> and 2<sup>nd</sup> year. Participants were 75 in number.

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• The Sub-Centre and ISF (SVNIT) jointly organized a workshop on **Sensor Controlled Robot and Mobile App Control Robot** during 20<sup>th</sup>-21<sup>st</sup> Jan 2018 in collaboration with Tech Cryptors, Mumbai. 50 students learnt to develop their own Android App to control their robots using mobile phones. They also learnt about IR sensors, Wireless mobile communication and Line followers.

• The Sub-Centre organized **IETE Students' Day** and **Sundeep Memorial Project Competition (SMPC)**, together on 3<sup>rd</sup> Feb 2018 in association with Electronics Dept, SVNIT. Events like Robomania, Circutrix, Avhaan, Flip-Flop were organized on the day. About 150 students, EC members, faculty advisors and staff members attended. Certificates and prize money were given to the winners.



Participants of the Competition

• The Sub-Centre organised **Annual Mega-Fest** of ISF at EE Dept, SVNIT on 24<sup>th</sup> Mar 2018, comprising technical events like Line tracer, Quiz Electronics Quotient, Coding event. Programmes like public speaking, sculptura and informals were also organized. 200 students participated.

#### THIRUVANANTHAPURAM

A seminar on Block Chain was conducted on 30th Jan 2018 in association with Kerala Block Chain Academy IIITM-K, inaugurated by Dr MG Rajamanickam, IAS, MD, Kerala State IT Infrastructure Ltd. Dr S Arumuga Perumal, Centre Chairman, presided over the function, Prof Radhakrishnan Nair, Centre Hony Secretary, accorded welcome speech in which Shri S Girish Kumar, General Convener & EC member gave the seminar overview. Dr S Asharaf, Assoc Prof, IIITM-K; Dr Vijay Kumar P, CEO, In App Information Technologies India Pvt Ltd felicitated the inaugural function. Shri RP Nair, former Centre Chairman expressed vote of thanks. Six technical sessions were on- Block Chain-A sneak preview of Technology, Adoptions, Smart Contract; Programming with Block chain; Block chain for Public Good; Indian scenario Block chain; Case study of Block chain in banking industry. Presentation from IBM was conducted by experts from IIITM-K and IBM. About 83 delegates from various IT institutions in Techno Park, students & faculties from engineering colleges participated. Certificates were issued to the participants by Dr Santhosh Kurup, CEO ICT Academy of Kerala.



Dr MG Rajamanickam, IAS, MD, Kerala State IT Infrastructure Ltd making a point during the seminar

#### VADODARA

• A one-day women awareness program on Demonetization was conducted on 6<sup>th</sup> Dec 2017 by Prof Urmisha Pothiwala, Lecturer/CE, Polytechnic College, the M S University of Baroda. She demonstrated the e-transactions /cashless transactions using various mobile applications. She explained different methods of digital payment and benefits of demonetization in day to day life. Dr Mamta C Padole, Hony Secretary, interacted with the participants from the technical perspective. The applications like Paytm and Bhim were demonstrated. About 30 women belonging to middle and lower income strata participated. They attended the seminar enthusiastically and were glad to learn cashless payment mode. Vote of thanks was proposed by Dr Mamta C Padole, Hony Secretary.

• Another awareness program on Softskills and Communication was conducted on 28<sup>th</sup> Mar 2018. Prof Nisha Rana and Prof Ruchita Tailor, Lecturers/CE, Polytechnic College, were the resource persons. The primary purpose was to inculcate important communication skills and public dealings. The topics covered during the talk were: soft skills; how it helps in growing businesses, use in conversations, correct postures and gestures; professions that require such skills. 25 women participated very enthusiastically and were motivated to use the concepts learnt.



Awareness program on Softskills and Communication in progress

• **IETE Students' Day** was celebrated on 2<sup>nd</sup> Feb 2018 at Faculty of Engineering and Technology, ITM Vocational University. **Dr Devang Shah**, Principal; **Dr Sonal Rane**, HoD/ EEE; **Prof Kanaiya Bhatt**, EEE Dept lighted the inaugural lamp. Prof Kanaiya Bhatt dwelled on **Recent Technologies and Advancements in Embedded Systems**. Based on IOT, two live projects were shown: 1) Controlling electrical appliances through website using internet. 2) Receiving, storing and live monitoring data of LDR (light dependent resister) sensor in internet server. Notebooks were distributed to the Ravaal village school students.

#### WARANGAL

A three-day workshop on **Applications of Raspberry PI in IoT** was organised under IETE banner at SR Engineering College, by **Shri A Athif Shah**, CMD, ABE Semiconductor Design, Chennai during 22<sup>nd</sup> -24<sup>th</sup> Jan 2018. During this workshop the topics covered day-wise were : Introduction about the Raspberry Pi3, Making an Environment for Raspberry Pi 3 for an IoT Environment, and Introduction of the Raspberry pi 3 with the M2MK Communication such as MQTT,SOAP, COAP protocols; The next day topics included were: Python Programming on Raspberry pi 3 – An Hawk Eye programming technique, hardware interfacing techniques for Raspberry pi 3. The topics covered on the concluding day were: Cloud with raspberry pi unterfacing-Cloud Data Analytics– Control of the Raspberry pi with the Cloud & working on the Industrial IoT Protocols using Raspberry pi and Ardiuno (M2M).



Workshop on Applications of Raspberry PI in IoT in progress

#### YAVATMAL

• A one-week AICTE-ISTE approved short-term training program was conducted on **Outcome Based Accreditation Process & Parameters** for NAAC and NBA Accreditation during 11<sup>th</sup>-16<sup>th</sup> Dec 2017. About 90 faculty members attended.

• The Sub-Centre conducted on **Digital Design using VHDL** at Government Residential Women's Polytechnic by **Prof P G** 

Kaushik on 21<sup>st</sup> Dec 2017 with 69 members and on **Digital Image Processing and Applications** by **Prof P D Pawar** on 28<sup>th</sup> Dec 2017 with 55 members.

• The Sub-Centre conducted IETE Students' Day and Women's Day at almost all the technical institutions within the juridiction of IETE Yavatmal Subcentre. IETE Students' Day was celebrated at Rajesh Kumar Wadhwan Polytechnic Institute, Kelapur, Yavatmal on 28<sup>th</sup> Feb 2018 by organizing a lecture and quiz competition by Prof Ketan Hande and Prof Anup Pachghare. He delivered an expert talk on Opportunities for Technical Diploma students. The day was also celebrated at Dr Babasaheb Nandurkar College of Engineering, Yavatmal on 6<sup>th</sup> Mar 2018 with a lecture by Prof Atul Shire and a quiz conduct for 52 members. Students' day was also celebrated at Govt Polytechnic Yavatmal on 7<sup>th</sup> Mar 2018, where Dr SM Gulhane, Sub-Centre Chairman, spoke on Outcome Based Education - A step towards Skill Development. This was also followed by a technical quiz by Prof PD Pawar and Prof KS Hande.



Students' day celebrated at Govt Polytechnic Yavatmal

The Students' Day celebrations at **ISF Sai Polytechnic Ralegaon**, **Yavatmal**, included a technical quiz on 7<sup>th</sup> Mar 2018 by **Prof A B Rathod** and **Prof Sadik Fanan**. About 36 students attended. The Chairman Sub-Centre conducted an expert talk on **Skill oriented teaching- learning in Electronics & Telecommunication Engineering**, at **Govt Polytechnic**, **Washim** on 13<sup>th</sup> Mar 2018 under this celebrations. It was followed by technical quiz as a promotional activity of IETE Zonal Seminar. On 12<sup>th</sup> Mar 2018 the Chairman conducted a talk and a technical quiz as a Promotional activity of IETE Zonal Seminar at **Government Polytechnic**, **Amravati**. About 104 students attended.

• Womens' Day was celebrated at various Institutes. A technical quiz by Prof (Dr) V G Neve, Prof UW Kaware and Prof NG Patel was arranged at Jagdambha Engg College,, Yavatmal, on 6<sup>th</sup> Mar 2018. About 100 students attended. At Govt Women's Residential Polytechnic, Yavatmal on 7<sup>th</sup> Mar 2018, where Dr S M Gulhane, delivered a talk on "Effective Teaching Learning in Electronics/Telecomm Engg" followed by a technical quiz with about 50 students. The Women's Day was also celebrated at Babasaheb Naik College of Engineering, Pusad on 15<sup>th</sup> Mar 2018 by conducting a technical quiz by Dr R J Bhiwani. About 60 students attended.

To share your insights with peers you are requested to contribute overview type articles, case studies, for consideration towards publication in IETE Journal of Education

## **IETE Professional Activity Centres (PACs)**

• IETE's youngest PAC at Australia organized its 7<sup>th</sup> IETE Australia Symposium on 28<sup>th</sup> Jan 2018 at Murdoch University, School of Engineering and IT, Murdoch, Western Australia. Members attending the symposium included: Manpreet Singh; Prashant Singh; Atul Garg, the Chairman, PAC; Tarun Dewan, Dy Chair; Colin Quinn; Suman Dewan; Pankaj Patro; Pramod Kapoor(through skype); Sunil Kadvasra; Vikram Mody; Kishore Mhatre; Ajit Abhyanker (through skype from Melbourne); Narendra Kumar; Siddharth Malani; Hari Malonan and Subhra Majhi. The two presentations given of the day were - LiFi and its Applications by Manpreet Singh (on skype from Melbourne) and "Data Science" by Prashant Singh (Perth). Both presentations were very good and everyone learnt something new.



Vibrant IETE team members from Australia

The 8<sup>th</sup> IETE Australia Symposium was held on 25<sup>th</sup> Mar 2018 at same venue. But this time the participants were honoured by the presence of **Prof (Dr) KTV Reddy**, President IETE, who logged in through skype and lauded the deserving efforts of the IETE team at Australia. Appreciating the growth and cordiality of the members at the PAC, he said he would like to see IETE Australia evolved soon into a full fledged Centre from a Professional Activity Centre. The opening address was delivered by the Chairman



Participants of 8<sup>th</sup> IETE Australia Symposium held at Murdoch University, Western Australia

PAC, Shri Atul Garg. Welcoming the attendees, Shri Garg pointed their prime intent of increasing the membership base and creating goodwill for IETE. In addition he acknowledged the support from Murdoch University, Shri Garg announced the launch of PAC's website, viz., http:// ieteaustralia.org/, and thanked Shri Jagpreet Walia, Perth Vision IT, for this courtesy. The members attended the symposium were: Atul Garg JP - Chairperson; Pramod Kapoor; Prashant Singh;Suman Dewan; Siddharth Malani; Rahul Verma; Vikram Modi; Himanshu Chetal; Ms Anunaya Sinha (Canberra); Ms Anuradha Guddenti; Hemantakumar; Kishorchandra Mhatre; Barjinder Singh (on skype); Ajit Abhyankar (on Skype) and Master Tankala. The presentations given on the occasion were on, Cyber Security Issues Everyone should know by Prashant Singh (Perth) and Block Chain Technology and Tts usage for User Authentication by Ms Anunaya Sinha (Canberra). Questions were taken up at the end of each presentation. The quality and standard of presentations were highly commended by Prof Reddy, and appreciated by all participants. Prof Reddy also acknowledged the help and services provided by the Murdoch University and the IT Company, Perth Vision, led by Jagpreet Walia. Vote of thanks was proposed by Chairman PAC, Shri Garg.

• IETE PAC at KIIT College of Engineering, Gurugram, Haryana, conducted workshop on Digital empowerment of Rural/Urban women on 28<sup>th</sup> Feb 2018. 80 participants from village Bhondsi, Ghamroj, BSF Camp, Naya Gaon & nearby areas such as Marutikunj attended. KIIT College faculty gave hands-on training to the participants for using Internet, google, facebook, WhatsApp etc. and emails. House wives & young ladies attended practical sessions in computer labs. The event was graced by senior scientist & engineers and academician from IETE, New Delhi and KIIT Group of Colleges. Feedback from participants was positive.



Participants of workshop held at KIIT College of Engineering, Gurugram

### **ISFs** Activities

• ISF in the Dept of ECE, Coimbatore Institute of Technology (CIT), Coimbatore, conducted a 2-day workshop on "Data Structures" on Jun 27-28, 2017 by Dr Shriram K Vasudevan, Dept of CS and Engg, Amrita School of Engg, Amrita University, Coimbatore. 119 students attended. It also conducted a 2-day technical symposium on "INFOTRA-18" on Jan 20 & Feb 02, 2018. Shri C Vignesh, Embedded Design Head, Hailstone Technology, Coimbatore; Shri S Naveen, Senior Project Engr, PanTech ProEd and Shri J Vinoth Kumar, Project Engr, PanTech ProEd, Coimbatore and faculties from ECE Dept were the resourse persons. 250 students attended.

• New ISF at Kalasalingam Institute of Technology, Krishnankovil, Tamilnadu, was inaugurated on Jul 12, 2017.

• ISF at Dept of ECE, School of Engg, Gayatri Vidya Parishad College for Degree & PG Courses, Visakhapatnam, organized a guest lecture by Shri A Srinivasa Rao, ITS, GM-BSNL, Visakhapatnam, on "New Trends in Communication" on Jul 25, 2017; a two-day IOT workshop on "Smart Watch Development" by Dalvik Apps on Aug 10-11, 2017; visit of ECE students to BSNL, Visakhapatnam, on Jan 6, 2018 for educational enhancement and a guest lecture by Shri G Ramesh TCS, AST, HYD on "IP Networking" on Jan 24, 2018.

• ISF at Dept of ECE, BMS College of Engg (BMSCE), Basavangudi, Bangalore was inaugurated on Sep 26, 2017. Dignitaries present were: Prof HS Bhatia, Centre Hony Secy; Shri Sudarshan Rao P; Prof GK Venkatesh; Dr MH Kori, Chairman, IMAPS, India; Shri H Ramakrishna, Advisor (R&D), Alpha Design Technologies Pvt Ltd; Dr Kanmani B, Dean Academics, BMSCE; Dr Ravishankar Deekshit, Dean Student Affairs; BMSCE and Dr G Poornima, HoD/ECE, BMSCE. 70 students registered. Dr Ravishankar Deekshit and Dr Kanmani B expressed importance of such student centered initiatives. Prof HS Bhatia introduced the IETE. Prof GK Venkatesh talked about the ISF and its benefits. Shri Sudarshan Rao P, showed video highlighting IETE tracing its history. Dr MH Kori presented an enlightening talk on "5G - Hype or Reality? A Technology Status Report".

• **ISF** at **Telcocrats Technologies**, **Ludhiana**, in association with IETE Chandigarh Centre organized a one-day technical workshop on "Advance Wireless Communication" on **Sep 28**, **2017**. Ms Dipti, HOD-ECE, Sachdeva Engg College for Girls, shared IETE's mission & vision and motivated students. Shri Mayank Kaushal, Sr RF Engr Telcocrats Technologies Pvt Ltd, the resource person touched upon the wireless domain knowledge from 2G to 4G. He gave hands on training on Optical Fiber Splicing Kit, GPS, Magnetic Compass, Atoll Software and Terms Software.

• The intercollegiate technical symposium "ACSTRONIX- 2K17" was organized by the ISF at Dept of ECE, ACS College of Engg, Bangalore on Nov 10, 2017. The event was sponsored by IETE Bangalore Centre, Technilab Instrument, Bangalore and Innovative Solutions, Bangalore. Debate and a Project exhibition were organised. Debate was based on "Radiation Effect of Mobile Towers/Mobile Phones on Environment and Human body" and "Avishkar" was the project exhibition. 113 students participated. The Chief Guest, Dr Venugopal K Principal, UVCE, Bangalore was felicitated on the occasion. In his address he highlighted the Facts on usage of mobile phone, its advantages, and disadvantages along with effects of the environment. Other dignitaries present were: Dr TR Gopalkrishna Nair, Rector, RR Group of Institutions; Dr MS Murali, Principal, ACSCE and Dr HB Bhuvaneshwari, HoD, ECE. Vote of thanks given by Dr Mathivanan, AP/ECE.

 ISF at Swami Vivekanand Institute of Engg & Technology (SVIET), Banur, Mohali was inaugurated by the Chief Guest, Dr Surender Singh Saini, Principal Scientist CSIR-CSIO and Hony Secretary IETE Chandigarh Centre, on **Nov 17, 2017.** Eminent persons present on the occasion were -Dr Neelesh Kumar, Principal Scientist in Biomedical Instrumentation Unit of CSIR-CSIO, Chandigarh and Prof Garima Saini, ECE Department, NITTTR, Chandigarh. Opening remarks were by the President SVGOI, Shri Ashok Garg. Shri Ankur Singhal, HoD/ECE, SVIET. Director SVIET, Prof Amardeep Singh congratulated the team for their efforts in organizing the event. Dr Amarjeet Singh Director, SVIET & HoD of various departments too graced the occasion. Workshop was held on the advances in telecommunication. Prof Garima Saini was key-speaker for the workshop. Shri Ankur Singhal Assoc Prof & HOD ECE, SVIET Banur was designated as ISF Coordinator. Vote of thanks was proposed by Er Arvind Singhy Head EE, SVIET Banur.

ISF at Dept of IT, Dharmsinh Desai University (DDU), Nadiad, Gujarat, organized a seminar by Prof Sandeep Suthar on "Internet of Things" on Nov 23, 2017. 16 faculty members and 9 MTech student members participated in it. Technical topics presented were (i) Introduction to IoT (ii) Embedded Systems (iii) Layered Architecture (iv) Communication Protocols (v) Application Level Protocol used in IoT (vi) Discussion about Cloud (vii) Practicals of IoT. A seminar at ISF was organized on "Study Abroad" on Feb 2, 2018 by experts from K7 International, Rajkot and Gate Forum, Vallabh Vidya Nagar. Shri Ajesh Kamania provided guidance to students interested in doing masters from abroad. Prof Vipul K Dabhi, ISF Co-ordinator, faculty members and 60 students attended. Another seminar was organised on "Internet of Things (IoT) and Cloud Computing" on Mar 9, 2018. Expert called was from Strawberry Software Pvt. Ltd, Ahmedabad, who dwelled on topics like IoT, Sensors, Connectivity protocols, Open source Hardware, Arduino, Cloud Computing. Prof R S Chhajed, Head, IT, Prof Vipul K Dabhi, Co-ordinator, faculty members and over 50 students attended

• **ISF** at **Kings Engg College**, **Chennai**, organized a one-day workshop on "Persuasive Research Promotion Strategies" on **Nov 25, 2017**.

ECE Dept Association of ELCOEF for 2017-18 at Nandha College of Technology (NCT), Erode, organized a one-day national level workshop on "Intellectual Property Rights & Innovations" on Dec 15, 2017. Dr A Amarkarthick, Head - IPR Cell, Bannari Amman Institute of Technology (BAIT), Sathyamangalam & Shri S Devaneyan, MD, Sathyanarayana Renewable Energy Resources, Coimbatore were the Chief Guests. It was presided over by the Chairman, Thiru V Shanmugan, SNET, and opening remarks were given by Dr S Nandagopal, HoD/IT. Dr R Nallusamy delivered the key-address. Dr S Arumugam, CEO; Thiru S Nandhakumar Pradeep, Secretary, SNET and Thiru S Thirumoorthi, Secretary, NEI, too addressed the gathering. The Chief Guest talked in detail about Indian Patent Law, Patentable Inventions, document writing and forms. Shri S Devaneyan explained drafting of patent document, patent searching websites, patent submission procedure, interaction about IPR and etc. The ISF also organized an academic seminar on "Antenna and Wave Propagation" on Jan 6, 2018, wherein Shri R Veeramani, ASP/ECE, KSR College of Engg, Tiruchengode, the Chief Guest, spoke on Antennas & its uses. The Dept of ECE & ISF together organized a 5th National Conference on "Emerging Trends in Engg and Tech (NCETET'18") in association with IETE Erode Centre on Mar 17, 2018. The Chief Guests gracing the event were- Er R Kodeeswaran, MD, Mechsoft Technologies, Erode and Er S Sivakumar, Power System Engr, ABB Global Industries Ltd, Chennai. Dr G B Mohankumar, HoD/ECE, Dr R Nallusamy, Principal, NCT and Dr S Arumugam, CEO, NEI were present. The Chief Guests delivered their addresses and shared their industrial and professional experience enthusiastically. On Mar 23, 2018 the 8th National Level Technical Symposium was organized in association with ISF. Dignitaries included-Shri Vinoth Kumar Sampath, Technical Manager, Cognizant Technology

Solutions, Bangalore, the Chief Guest; Dr GB Mohankumar, HOD/ECE; Dr R Nallusamy, Principal, NCT and Dr S Arumugam, CEO, NEI. Dr R Nallusamy and Dr GB Mohankumar addressed the gathering. 42 students presented papers. More than 118 students participated in events like Project Expo, Multimedia, Ad-Zap, Fun Games, Treasure Hunt and Technical Quiz. Prize winners were felicitated. An IETE sponsored academic seminar on "Network Simulator" was organized on **Mar 24, 2018**. Shri AK Sivasakthi, Business Dev Mgr, Kalpa Electrical Pvt Ltd, Coimbatore, graced the event as the Chief Guest. HoD/ECE, Dr GB Mohankumar, was also present. The **ISF** also organized an Industrial Seminar on "Basic Electronics" on the same day wherein Shri Nirmal Saravanan, Co–founder, Breathe Electronics, Chennai was invited as the Chief Guest.

ISF at Kongu Engg College (KEC), Erode in association with IETE Erode Centre organized a guest lecture on "Industrial and Higher Education opportunities in Japan" on Dec 18, 2017. The welcome addressed was by Dr G Murugesan, Chairman, IETE Erode Centre and the felicitation address was delivered by Prof S Kuppuswami, Principal, KEC. This was followed by the presidential address by Thiru AVenkatachalam, Correspondent of KEC. He emphasized on the importance of learning foreign languages for gaining an edge. Guest lecture on the topic "Introduction of Japan and Japanese Management" was delivered by Shri Katsuya Yasuda, Founder & MD of Yasuda Consulting. "Opportunity in Software Industries in Japan", was delivered by Toru Yoshikawa San, MD of Threet Co Ltd. Shri G Balaji, ISF Addl Sectretary proposed the formal vote of thanks. Another Interaction Program on Global Entrepreneurship organized on Jan 10, 2018 was graced by Shri Sunnil Rai, AVP-Sales, Trans Neuran Technologies, Banglore as the Chief Guest. He explained the institutional support provided by the GoI to young graduates for starting new businesses. The ISF also organized- a inter departmental technical symposium, viz. Tech Thirst-II on Jan 11, 2018 in which students showcased their technical skills and talents. Dr G Murugesan, HoD, KEC, Prof S Kuppuswami, Principal, KEC, Thiru A Venkatachalam, Correspondent of KEC addressed the participants. Other events organized were: paper presentation, idea presentation, C-hunt, boot strappers, scratch your brain, treasure hunt, dare to stand, knowledge boosters, quiz and photoplay. In the valedictory session Dr G Murugesan, HoD/ECE was the key speaker. Vote of thanks was proposed by Ms U Sowndarya, Addl Secy, ISF. On Feb 8, 2018 Shri Rajaa, Dir, Pavitheran Competitive Circle, Salem, addressed the students about the possible methods to crack the Govt competitive exams in an interaction program about global entrepreneurship. Students were given another opportunity to showcase their technical skills and talents through a national level technical symposium ACUMEN, held on Mar 6, 2018. Dr G Murugesan, Prof S Kuppuswami, Thiru AVenkatachalam and Dr S Arumugam, graced the event. 100 participants from different part of India submitted their proposals in wireless technologies, communication, VLSI, embedded solution for agriculture and energy conservation etc. 30 proposals for presentation were shortlisted. Certificates and Prizes were distributed to the participants as a token of appreciation.

• ISF at Dept of ETE, Vivekanand Education Society's Institute of Technology (VESIT), Mumbai organized a workshop on Industry tools & Industry live softwares on Dec 20-22, 2017. Opening speech was by Dr Ranjan Bala Jain, Training In-Charge at VESIT, followed by Shri Nagananda, Training & Placement Officer, who shed light on such available more opportunities. Shri Mayank Kaushal, Sr RF Engr, Telcocrats Technologies, conducted the workshop on modules of Advance Wireless Communication and Optical Fiber Communication. Next day, he took on the practical aspects of wireless communication like RF drive Test, RF planning with practical on software for 3G and 4G technologies. Day three, the students were given hands-on practicals and took for a site visit where a tower could be installed. They were taught network planning, frequency planning and cell planning for 3G and 4G technologies.

• ISF at Dept of ECE, Anil Neerukonda Institute of Technology and Sciences (ANITS), Visakhapatnam, organized a one-day faculty development workshop on "Outcomes Based Education" on Dec 21, 2017 in association with IETE, Visakhapatnam Centre. Dr D Seshacalam, Prof/ ECE, BMS College of Engg, Bengaluru chaired the session. 40 faculty members were trained. Another one-day faculty development workshop was held on Dec 23, 2017, chaired by Dr D Seshacalam, Prof, Dept of ECE, BMS College of Engg, Bengaluru, also an evaluator for National Board of Accreditation . He deliberated on the topics of Overview of Outcome Based Education (OBE), Writing Course Outcomes, Mapping with Program Outcomes, Calculation of CO-PO attainment and New pedagogical initiatives for active learning. Hands on sessions for the above topics were conducted. 34 faculty from Dept of ECE and 18 faculty from 7 departments of ANITS were trained in this workshop. The ISF in association with Andhra Pradesh State Skill Development Corporation (APSSDC) organized a three day workshop on Embedded Systems (IoT) Fundamentals using Arduino & 8051 Microcontroller during Jan 2-4, 2018. 112 ANITS 3rd /4th year ECE & EEE students enrolled. Trainers from APSSDC- Shri S Murali Krishna, Shri B Nagaraj, Shri SK Zubear and Shri B Mahidhar handled the sessions. Hands on training were offered to the students. The event was inaugurated by Dr V Rajya Lakshmi, Prof and HoD/ECE, ANITS and coordinated by Tinkerer's Lab/ECE, ANITS. The event triggered interest in "Embedded Systems and Internet of Things"

• New ISF at Dhanekula Institute of Engg and Technology (DIET), Ganguru, Vijayawada, was inaugurated by Prof K Raja Rajeswari, Director (R&D), Gayatri College of Engg for Women, Visakhapatnam on Dec 26, 2017. 73 enrolled as student members. She advised the students to make use of this platform to explore their talents by means of presenting papers, posters etc., in symposia. Principal Dr K Ravi attended. On the occasion an expert talk on "Genetic Algorithms – Implementation and Applications by Prof K Raja Rajeswari, was organized. ISF /BTech students (ECE) along with faculty members attended. The speaker explained solving difficult problems using algorithms. She also explained the other optimization methodologies. HOD, Dr GL Madhumathi; Dr BL Prakash and Dr G Asa Jyothi also addressed the students. The efforts put in by Shri Y Ramakrishna were appreciated.

• New session at ISF at Velammal Institute of Technology (VIT), Chennai was inaugurated by the EC member, IETE Chennai Centre, Shri R P B Sundram, (Retd) AGM, BEL, on **Dec 28, 2017**. Speaking on the topic "The Applications of Electro Optics in Defence", he explained about various day and night vision devices with their components, technologies and working. Principal, Dr T Chandrasekhar, HoD, Dr B Shri Devi and Assoc Professor, Shri Illaiyaraja also graced the event. Technical events like Connectronix and technical quizzes engaged the students. Connectronix stimulated the technical and general awareness among the students and was organized by the Vice Chairman, Shri D Mukesh & Exec Members – Shri R Akash and Shri U Jayakumar. The technical quiz organized in three rounds was conducted by the Chairman, Mr Lianne Rachel Johnson, Secretary, Shri B Gnanasankari and Exec members: Shri D Shri Harini and Ms S Preetha under the supervision of ISF Coordinator, Shri Ragupathi.

• ISF at Ramrao Adik Institute of Technology, Nerul, Navi Mumbai, conducted Product Specific Learning in Communication Engg during Jan 4-19, 2018 and a workshop on Network Simulator Software on Jan 20-21, 2018. A hands-on introductory workshop to Arduino was held on Jan 30-31, 2018.

• ISF at FR C Rodrigues Institute of Technology, Vashi ,organised various activities that included Mini Project competition for II&III year on Jan 6, 2018; Level-1 Robot making workshop on Jan 16, 2018; Seminar for III year students on Jan 18, 2018; Extacy 2018 during Jan 19-20, 2018; Industrial visit for II year on Jan 22, 2018; Industrial visit for final year on Jan 29, 2018; Industrial visit for III year students on Mar 7, 2018 and Industrial visit for III year on Mar 26, 2018. The events received overwhelming response.

ISF at Kamaraj College of Engg and Technology, Madurai,

conducted an interaction session for faculty members and final year students with Shri Srinivas Raja, CEO of UTL, Bangalore and Shri Arvind Govindraj, Training Manager, UTL, Coimbatore on Jan 6, 2018. The aim was to acquaint the participants of the entry level job opportunities; skill set expectations, start ups, R&D scope with electronic sector skill council and manufacturing companies. The session was arranged and coordinated by Ms V Jeyalakshmi, AP/ECE. A one-day workshop was held on "NS2 simulation Tool" on Feb 12, 2018. Initially, a brief introduction about Network Simulator 2 was given by Dr S Kavi Priya, Assoc Prof/IT, Mepco Schlenk Engg College. NS2 is an open source simulation tool that runs on Linux. It is a discrete event simulator targeted at networking research and provides substantial support for simulation of routing, multicast protocols and IP protocols such as UDP, TCP over wired and wireless networks. A network simulator 2 is software that predicts the behavior of a computer network. Additionally, NS2 has no GUI and it is necessary for the users to learn TCL, AWK, PYTHON, C++ and more. Finally, hands on session on NS2 were given in the Network lab.

• The **ISF** at Dept of ECE, **Velalar College of Engg and Technology**, **Erode** organized IETE and BSNL sponsored one-day technical lecture on "Next Generation Networks" on **Jan 11, 2018**. Dr M Jayaraman, Principal; Dr K Venkatachalam, Prof and Head were present. Shri G R Senthilkumar, JTO and Shri Mathialagan, SDE, BSNL TN Circle, Erode, graced the event as the Chief Guests. Shri Senthilkumar, taught about Multiprotocol Label Switching (MPLS) and gave career guidance. The lecture was coordinated by Ms K Kavitha, Shri S Rajan, and Shri G Boopathi Raja, all Asstt Professors. 150 students attended.

• New session of the ISF at DIT, Pimpri, Pune commenced on Jan 12, 2018.

ISF at ET, Guru Gobind Singh Polytechnic, Nashik, organized a two-day workshop on "Excellence in Interview Skills" for 50 diploma final year students of electronics, mechanical engg deptt on Jan 12 & 20, 2018. Shri Vijay Acharya, Founder EKNOWAY, Mumbai was the resource person while Mr Farhan R Inamdar was the IETE Coordinator. Different aspects of Interview Skills were taught on first day. Mock Interview, Group Discussion and Personal Interview on the next day. An expert lecture on "Mobile communication and Jr Engg entrance exam preparation" was organized on Jan 23, 2018 for students of III year E&TC and Computer Engg. Shri PB Vispute, DGM BSNL Nashik and Shri SA Bhadane, SDE BSNL, Nashik were the resource persons. A 4th State level workshop on 'Simulator Software and Embedded system design' was held on Feb 14-15, 2018 by Shri Viral Shah, Veer Technologies Nashik, Shri Pramod Aswale, AP/SITRC Nashik and Shri Santosh Kambale, Sai Tronics Ltd. Navi Mumbai. Shri Nitin Mahajan, GM, BSNL, Nashik was the Chief Guest. Dr M D Kokate, immt Past Chairmen IETE, Nashik Sub Centre and Dr D M Chandwadkar, Chairman of IETE, Nashik Sub Centre were Guests of Honour. The Chief Guest mentioned that gap between the expectations of the industries and education system can only be filled through the improvement of academics, upgrading of staff and development of industrial skills in the students. The Guests of Honour focussed on the skill improvements in their address. Shri S Parmindur Singh, CEO, GGSF expressed his views on the role of a teacher in the overall development of the student and need of inculcating hands-on industrial skills. Shri Puneet Singh Duggal, Principal, Mrs Sushama Kolhe, HoD/ E&TC, Shri Farhan Inamdar, Coordinator, GGSP ISF and staff contributed for the success of the event.

• ISF at Dept of ETC, Don Bosco College of Engg (DBCE), Fatorda, Goa, conducted workshop on "ARDUINO" on Jan 13, 2018. 58 students participated. Resource persons included: Prof Vishnu Rathod and Ms Cecilia. Prof Samantha Cardoso, Prof Vishnu Rathod, IETE co-ordinators. Areas covered were- hands-on exposure to the software: Introduction to Arduino; Blinking LED'S; Driving different type of motors; Relays; Bluetooth; NRF 24LO1 wireless communication; 16\*2LCD interfacing and practical examples and tasks. • **ISF** at Dept of ECE, **Punjabi University**, **Patiala**, organized a lecture, *viz.*, "Motivation for GATE /IES" on **Jan 18, 2018**, by Shri Nitish Kumar. The lecture focussed on the scope and benefits of GATE and Engg exams. IETE Coordinator-Dr Reecha Sharma organized the programme that was attended by 100 students.

• ISF at Dept of ECE, Nandha Engg College (NEC), Erode in association with IETE conducted an industrial seminar on Jan 19, 2018. Dr Kumar Rajamani, Business Model Acclerator Partner at Bosch GMBH, Germany spoke on "Carrier Opportunities in Core Areas for ECE". Prof R Murugasami, ASP/ECE; Prof G Rathanasabapathy, AP/ECE and Prof R Murugasami, ASP/ECE were present. The ISF also conducted 11<sup>th</sup> National Level Technical Symposium "GENESIS 2K18" in association with IETE, on Feb 16, 2018. The guest of the day was Shri Balasubramaniam Somasundaram, Mgr, Digitalization, Energy Management, Plant Enginnering & Maintanence, ZF Wind Power, Coimbatore LTD. Dr CN Marimuthu, Dean/ECE; Prof T G Dharani, ASP/ECE and Prof R Murugasami, ASP/ECE were also there.

• ISF at Excel Engg College (EEC), Komarapalayam, Namakkal, (TN) was inaugurated on Jan 20, 2018, wherein Dr G Murugesan, Chairman, IETE Erode Centre, the Chief Guest addressed the gathering. Dr S Anbukaruppusamy, HoD/ECE and Ms K Subashini were present.

ISF at BITS, Vadodara celebrated its foundation day on Jan 23, 2018. The ceremony saw the handing over of responsibility from old to new committee. Previous committee members were given certificates of appreciation as a token of thanks for their enormous efforts put behind every event conducted under their tenure and the new committee was welcomed with IETE badges and best wishes from each of the Faculty members present during the event. Dr Pallavi Agrawal, Principal BIT motivated students to be a part of ISF. Dr Twinkle Doshi, HoD EC Dept explained the benefits of ISF to the I year students. Prof Kashish M Makhijani, Co-ordinator ISF-BIT announced the new committee with Mehul Suthar as Chairman- ISF. Event concluded with the vote of thanks by Prof Dharti Vyas. The ISF conducted another workshop on "Proteus" on Jan 29, 2018, where students were briefed on the usefulness of the software "Proteus" and how it can be used efficiently. Students were taught about the working of the full wave rectifier circuit and LDR with their uses in practical life. They were given the task to design a specific circuit with use of various components like AC source, transformer, AC voltmeter etc.

ISF at Dept of ECE, KU College of Engg and Technology (KUCE&T), Warangal, was inaugurated by Prof R Sayanna, Vice Chancellor, Kakatiya University(KU) on Jan 27, 2018. The session was presided by Prof P Malla Reddy, Principal, KUCE&T. Prof K Purushotham, Registrar, KU, congratulated the students. Dr G Raghotham Reddy, Chairman, IETE Warangal Centre explained the importance of having an ISF in the campus and its technical benefits. Shri M Raghu Ram, Hony Secretary, IETE Warangal Centre, threw light on the activities of ISF and insisted students to participate activively. Md Asim Iqbal, Convenor, ISF and incharge HoD ECE & the faculty members attended the event. Shri Y Balaji Rao, Sr Mgr, Dept of Atomic Energy, National Fuel Complex, dwelled on "Career opportunities in Dept of Atomic Energy (DAE)" and Prof K Ashoka Reddy, Dept of ECE, KITS Warangal delivered a talk on "Signal Processing: Basics to Applications". A two-day workshop on "PCB Design & Fabrication" was organised under IETE banner on Feb 20-21, 2018.

• ISF at Dept of ECE, EGS Pillay Engg College, Nagapattinam, TN, in association with Vi Microsystems, Chennai conducted a five-day Electronics Week – 2018 (Hands on Training) Program on "Electronics Gadgets" during Jan 29-Feb 2, 2018. Co-ordinator Shri C Mathuvanesan delivered the opening address while the keynote address was given by HoD, Prof R S Koteeshwari. Principal, Dr S Ramabalan presented the inaugural address and the Chief Guest Dr R Vijayarajeswaran, MD, Vi Microsystems, Chennai explained 'Internet of Things' in his unique way. Prof T Senthilkumar and Service Engr Shri K Raju, demonstrated all

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practical aspects of CRT & LED television systems. Prof D Muthulakshmi and Service Engr Shri K Raju, gave hands-on-training in current industry electronic equipments. Prof S Senthilkumar and Technician, Shri R Ramanan, elaborated and demonstrated Robotic Design concepts using Raspberry Pi Processor. Prof MM Nuthal Srinivasan and Technician Shri R Ramanan provided hands-on-training on "Electronic Sensors". Prof D Devarajan & Prof M Irshad Ahamed, delivered a lecture on "Electronic Project Startups". Summing up was by the Co-ordinator and vote of thanks was proposed by IETE Convener.

• ISF at Datta Meghe College of Engg (DMCE), Airoli, Navi Mumbai celebrated Students' Day on Feb 1, 2018. The ISF also organised Python workshop by IETE-DMCE during Mar 9-10, 2018.

• ISF at Jawaharlal Darda Institute of Engg & Technology (JDIET), Yavatmal celebrated Students' Day on Feb 2, 2018 followed by a technical quiz by Prof KS Hande and Prof A A Pachghare, EC Member, IETE Yavatmal Sub-Centre. About 150 students attended. A motivational speech by Shri Sopan Kanerkar was arranged on the eve of Women's Day at ISF on Mar 8, 2018 for the benefit of ISF Students. Around 200 students attended.

• ISF at M Kumarasamy College of Engg, Karur (TN) conducted a guest lecture on "Real Time Application on VLSI Design" on Feb 3, 2018, inaugurated by Asst HoD, Shri C Nanthagopal. Shri L Vinoth, RTL Design Engr, Caliber Embedded Technologies India (P) Ltd, Coimbatore, was the resource person. 80 students participated.

• ISF at Dept of ECE, DAV Institute of Engg and Technology (DAVIET), Jalandhar, organized a Quiz competition 'QUIZUP' on Feb 6, 2018 under the banner of IETE Students' Forum. 60 Students participated. Each winning team student was awarded with a USB device and certificate of appreciation. Rest of the teams was given certificate of participation. The quiz was organized and coordinated by faculty coordinators Shri Amit Arora and Ms Poonam Sethi under the guidance of HOD, Dr Neeru Malhotra (Coodinator IETE).

• ISF at Dept of ECE, Acropolis Institute of Technology & Research, Indore, was inaugurated on Feb 6, 2018 and organized two lectures on the occasion, "Environmental hazards of E-waste and Management" and "Electronic Circuit Design –DC power supply" by Ms Shweta Sharma, associated with MP Vigyan Sabha Bhopal and Prof Tapan Mukherjee, Dir, Tech-Force Composites Pvt Ltd, Indore respectively. Dignitaries present were: Dr Shamsher Singh, Vice-Chairman (Academics); Dr SC Sharma, Dir, AITR; Prof Atul N Bharat, Gp Dir CDC; Dr UBS Chandrawat, Head, ECE Dept Ms Mukti Awad, ISF Coordinator and faculty members of ECE. A workshop on LED Bulb Manufacturing was organized on Mar 17, 2018, by Dr B S Chaurasia. Shri Prabhat Pandey, Shri Sudhreesh Gour, Shri Imran Beg, ISF members and EC-1 II year students attended. Dr UBS Chandrawat, Head/ECE, Ms Mukti Awad, Coordinator, were also attended.

The ECE, EE & Electronics Engg Depts, at ISF Sree Sowdambika College of Engg, Chettikurichi, Aruppukottai, celebrated IETE Students' Day on Feb 8, 2018 under IETE Sivakasi Centre. Shri J Goldwyn Sudhakar, AP/ECE delivered the opening remarks. Shri P Manikandan, HoD/EEE, Shri Chinnamuniyandi, ASP/EEE presided. Shri KS Srinivas, ASP/S&H was the special guest. Events, viz., Multimedia presentation, Technical Paper presentation and Just A Minute were organized. Student from EEE and ECE dept participated in multimedia presentation for the topic 'India 2050" or "Sagarmala Project". Various aspects such as education, human resource, politics, acts and pills, humanity, unity in diversity were put on by the students to support their perceptions. Shri A Marikkannan, and Mrs A Mariya Chithra Mary, AP/EEE and Mrs G Anushri, AP/ECE adjudged the presentations. Presentation on "Stealth Technology" was judged by Shri S Sugumar, Shri Chinnamuniyandi from ASP/EEE and Shri Muthukumaran, AP/EE. In JAM-Just A Minute was conducted where students were asked to select a topic on the spot and share their views on it for 1 minute. Ms P Ananthi, AP/ECE acted as judge. Ms Pandiselvi of III/ECE delivered the vote of thanks. Shri J Goldwyn Sudhakar, AP/ECE and Ms M D Kokila,

Asst Prof/EEE organized the function.

• **ISF** at Dept of ECE, **Ambala College of Engg and Applied Research** (ACEAR), **Ambala**, conducted general ability test on **Feb 9**, **2018**. 29 ECE students attended. The first position was bagged by Ms Pragati Singh, while Shri Anurag Verma and Ms Priyanka Vimal came in the 2<sup>nd</sup> and 3<sup>rd</sup> positions respectively. Faculty members- Prof Ashok Kumar, Er Chander Mohan and Dr Preeti Khera were present. Faculty present during the event were: Prof Ashok Kumar (Coordinator); Er Chander Mohan and Er Preeti Khera both Teacher coordinators.

• ISF at Dept of ECE, Mount Zion College of Engg and Technology(MZCET), Pudukkottai, conducted IETE State Level Student Convention on Feb 9, 2018, presided over by Shri Jayabarathan Chelliah, Chairman, Mount Zion Educational Institutions(MZEI) presided. Mrs Florence Jayabarathan, Vice–Chairperson, MZEI, delivered the inaugural address. Director, Dr Jayson K Jayabarathan and Principal, Dr P Balamurugan extended their felicitations. Chief Guest Dr Swarna Ravindra Babu, Chairman, IETE Chennai, delivered the special address, the Founder of Coovam Smart System, which specializes in IOT. Events were: Paper presentation, Multimedia Presentation, Mini project, Technical quiz, Debugging. 110 students participated from 17 different colleges. Director, Dr Jayson K Jayabarathan distributed prizes.

• ISF at Mepco Schlenk Engg College, Sivakasi conducted a workshop on "PCB Design and its Fabrication" on Feb 12-13, 2018. Shri S Kannan, ECE Dept, Mepco Schlenk Engg College, demonstrated the conversion of a circuit diagram to the PCB. Guided students to work in PCB wizard. 185 students benefitted.

• ISF at Dept of TE & EC, K S Institute of Technology, Bangalore organised a workshop on "Intro arduino" during Feb 15-16, 2018 in association with Inversa Technosoft Pvt Ltd. Ms Chanda V Reddy, HoD, Telecommunication inaugurated. The first day of the workshop began with an introduction to Arduino. The theory session was highly informative and it covered all the topics included from the basics. The second day of the workshop began with interfacing of different sensors LDR, RGB, ESDR and others. All these sensors were interfaced using Arduino board for which the Arduino code were taught simultaneously. By interfacing these sensors with Arduino and controlling the bots which were prepared by each team for the bot race. The bot race was conducted in the last session of the workshop. In which the students had to alter the bot and code for them. Students benefited from this workshop. 63 students from TCE, CSE, ECE & ME participated and received hands-on-training. Coordinators were- Dr ManjuVC, Dr Surekha Borra, and Shri K Senthil Babu.

• ISF at ETRX Dept, Thakur College of Engg and Technology (TCET), Kandivali, Mumbai, conducted "Conference on Advances in Electronics Engg" (CAEE-2018) under Multicon-W 2018 in Electronics Dept during Feb 22-23, 2018, covering various facets of electronics Engg world that included present day technological and digital transformation presenting challenges for engineers. Research papers of high quality were presented in different domains.

• ISF at Pillai HOC College of Engg & Technology, Rasayani, organised a seminar on Current Trends in Market Technology on Feb 23, 2018 and Junkyard Competition on Feb 10, 2018.

• ISF of Gokaraju Rangaraju Institute of Engg and Technology (GRIET), Hyderabad, conducted an event called "Think Big" on Feb 24, 2018, where in students were given an opportunity to present their ideas or give a presentation on the current trends in the society or their own project ideas for potential startups that can change the technology game. Students from various departments took part and presented technology advancements and current trends.

• ISF at Dept of ECE, K Ramakrishnan College of Engg, Tiruchirappalli, in association with Electro Ethnarch, organized a "Faculty Development & Training Program on Ads Software" during Feb 26-28, 2018. Around 30 students and faculty members participated. Principal, Dr D Srinivasan gave the certificates to the participants. The contest was organized by Dr M Maheswari, Prof/ECE and was co-ordinated by Mrs B Murugeshwari, AP/ECE. The **ISF** also organized an "Industry Institution Interaction (I<sup>3</sup>)" on **Mar 9**, **2018** by Dr M Maheswari, Professor/ ECE. 180 students participated in the program. Principal, Dr D Srinivasan, felicitated the participants. Mrs B Murugeshwari, AP/ECE coordinated the interaction.

ISF at Dept of E&T, Sinhgad College of Engg, Pune, organised a National Conference on Pervasive Computing (NCPC-2K18) during Feb 27-28, 2018 comprising 8 sessions. This conference was sponsored by Savitribai Phule Pune University, under Quality Improvement Programme (QIP) and technically sponsored by IETE Pune Centre. 48 papers focusing on Signal and Image Processing, Biomedical Signal Processing, Artificial Intelligence, Embedded and VLSI, Multidisciplinary Aspects were selected. Dr Y Ravinder, Prof & Head, E&TC, PICT Pune, inaugurated. Dr SO Rajankar, Dr MB Mali, Head, E&TC Dept, SCOE,addressed the audience in the session. Dr Y Ravinder delivered keynote address on 'Signal Processing in Antenna Arrays for Wireless Communications'. Others present were: Prof VG Raut, Co-coordinator, NCPC 2018, the faculty members of E&TC, authors and participants attended. The conference was distributed into 8 different sessions during two days of the conference. Session 1 and Session 2 were conducted parallely; papers from Signal and Image processing were presented by the authors during these sessions. Dr O S Rajankar and Prof S C Badwaik chaired session 1 while Dr S K Jagtap and Dr S S Lokhande chaired the session 2. The next sessions 3 and 4 were conducted after the lunch break. The papers presented in session 3 were from Embedded and VLSI domain. The session was chaired by Dr Sheetal Bhandari from PCCOE, Pune and Prof MM Jadhav from SCOE. The session 4 had papers conducted in Artificial Intelligence domain, the session was chaired by Dr J R Prasad and Dr S R Ganorkar. Similarly on day 2, four sessions were conducted. The session chairs suggested certain valuable points of improvement to the authors in their respective research area. The conference was concluded with distribution of certificates in the valedictory function.

ISF at KPR Institute of Engg and Technology, Coimbatore, celebrated National Science Day on Feb 28, 2018 by organizing events like paper presentation, innovative idea presentation, technical quiz and photography. 200 students from various colleges in districts of Coimbatore, Tiruppur and Erode participated. The main motive of this event was to improve the technical, analytical, managerial and administrative skills of the participants. Dr V Seethalakshmi, Shri S Balamurali, Dr B Jai Shankar, Dr N Rajesh Kumar, Mrs R Dhivya Devi, Ms G Saranya, Mrs Sathyaa and Mrs Sudarvizhi, Dr V Balaji, Shri K Siddhrathraju and Ms R Mohanabharathi and Dr Hema served as Jury. The ISF also conducted a guest lecture on "Employability Enhancement Skills" on Mar 7, 2018 graced by Prof K Jayaraman, Dir, Competency Development Centre, Bengaluru. Dr D Venugopal, Prof and Head/ECE; Dr A M Natarajan, Prof and CE expressed their views. Prof Jayaraman, through his active interaction with the students, gave a brief insight on what the industry seeks in a fresher and how students can get their dream job. He gave statistics and useful data on how a student can enhance their employability skills. Ms T Nivashini, IETE student volunteer, delivered the vote of thanks.

• ISF at ECE Dept, SSM Institute of Engg and Technology (SSMIET), Dindigul, organized a seminar on "Antenna Theory and Design" on Mar 1, 2018. Dr S Murugan Prof/ECE, KLN College of Engg, Madurai, was the resource person. He showed many videos based on antennas with real time examples and taught how to design an antenna. Finally he motivated the students to become an antenna Engr and asked them to attend the NPTEL programs conducted by IITs. The ISF also organized another intra departmental symposium on Mar 12, 2018, which contained technical and non-technical events, viz., Paper presentation, Project expo, Technical quiz, Treasure Hunt, Adzap, Minute Video, Auctions, Freeze and Dubsmash. Juries were allotted per event for selecting the winners. Shri PS Veluswamy, Chairman and Managing Trustee visited the project expo and motivated students. Felicitation was by Dr M Saravanan, Principal; Dr R Chandran, Campus Dir, and urged students to involve in technical events. Events summary was given by Shri M Manikadan, AP/ECE-ISF Coordinator.

• ISF at Vel Tech Multi Tech Dr Rangarajan Dr Sakunthala Engg Collage, Chennai, organised a guest lecture on "Computer Networks" on Mar 2, 2018, by Col KS Chakravarthi, Vice Chairman, Indian Institution of Plant Engineers.

• ISF at Kaylani Charitable Trust's Late G N Sapkal College of Engg (LGNSCOE) and Telecom Sector Skill Council jointly organized a seminar on the "Skill Development in Telecom Sector in Nashik" on Mar 20, 2018 with the support of Shri Ravindra G Sapkal, CMD, Sapkal Knowledge Hub and Dr SB Bagal, Principal, LGNSCOE. Prof SB Borse HoD/E&TC delivered the opening remarks. In his address Shri Pradeep Jaswani, Consultant - Western Region – TSSC informed the set up of multi skill development centers at Nasik, Pune and Nagpur established by the Govt. to enhance employability. Shri Shailesh Dhande informed about increased numbers of training partners with TSSC, aiming to enhance employability of youth. Government of India in cognizance of this need had set up the National Skill Development Council and set a target of training 500 million by 2022. ISF Coordinator Prof M P Bodkhe proposed vote of thanks.

• Inauguration Program for new session at ISF Government College of Engg, Nagpur was held on Mar 21, 2018. Dignitaries present on the occasion were: Dr PR Deshmukh, Co-ordinator of ISF & HoD/ETE, Dr N D Ghawghawe, Vice-Principal & HOD/EE and the Guest of Honour Shri Ajay Sawatkar, GM BSNL and Chairman, IETE Nagpur Centre. The students of electronics and telecommunication and electrical engg dept participated in the event. Dr PR Deshmukh briefed about the activities of IETE, its vision, and other activities. Shri Ajay Sawatkar emphasized on the enhancement of Skills for employability in today's competitive environment and mentioned how IETE was helping in this direction. It also included new installation ceremony.

ISF at Dept of CSE & ECE, GVP College of Engg for Women, Visakhapatnam, conducted a three-day National Workshop on "Cryptology and Cyber Security (WCCS-2018)" during Mar 22-24, 2018. Prof K Raja Rajeswari, Director (R&D) was the Program Chair while Dr M Bhanu Sridhar, Dr K Srinivasa Rao, coordinated. The number of experts and resource persons got together, discussed and recommended useful ideas in the presence of fraternity for finding solutions to the task of strengthening Cyber Security for the benefit of public and protect them from cybercrimes and threats. The workshop is intended to provide opportunity for faculty members and research scholars for upgrading their knowledge in the area cyber security and cryptography. This workshop covered some of the topics like: Basics of Cryptology including notion of security, Blockchain Technology, Introduction to Elliptic Curve Cryptology, Proxyre-encryption, Cryptography from Channel Noise, Authentication Issues, Recent Strides in IT Security, Cryptography from Channel Noise and so on. The Resource persons are Prof Bimal K Roy, Former Dir, ISI, Kolkata and Gen Secy, CRSI, Prof R Balasubramanian, Former Dir, IMSc, Chennai and President, CRSI, Prof Shri Kant, Former Dir, DRDO, Prof C Pandurangan, IIT Madras, Prof Ganapati Panda, IIT Bhubaneswar, Dr YV Subba Rao, UoH, Dr KannanSrinathan, IIIT Hyderabad, Prof PS Avadhani, AUCE (A), Prof MS Prasad Babu, AUCE (A), Prof J Madanmohan Ram, GVPCE (A) and Shri P Nagesh Gautham, Citi Bank, USA.

• ISF at K J College of Engg & Management Research (KJCOEMR), Pune organized 4th National Level Project and Poster Expo for Engg and diploma students during Mar 23-24, 2018 in association of IETE Pune Centre. The objective was to provide a common platform to the students to exchange innovative ideas in the field of Engg and Polytechnic and was organized under the broad themes of Computer, IT, E&TC, Electrical, Mechanical and Civil Engg. The Chief Guests invited were:

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Shri Dhananjay Diwan, Head Corporate Training and Dr Prakash Kajave, Sr Manager –Tech Mahindra, Pune. They enlightened all the participants with their motivational words regarding the opportunity for innovative Engr and wide scope in entrepreneurship. The Guest of Honors invited were: Shri Harish Butle, a Cofounder and Director at DEEPER, Mr. Wang Hong-a Cofounder at Finnovation Tech Solutions Pvt. Ltd., Shri Prashant Karandikar, Dir at Oha Solutions and Prof S K Khedkar, IETE Pune. More than 1100+ students from various Engg colleges and polytechnics in and around Pune participated in the event. Gravity Best Project winner from Diploma category was – *IOT Based Fuel Monitoring System for future vehicles*, (Computer Engg), SVCPP – Sinhgad, Pune and from Degree category–*Design of Compressing Dusbin (Smart Bin)*, (Mechanical Engg), TCOER, Pune. Participants were greatly benefited from the cash prizes (Rs 61,000), Best Concept Awards were given in the form of trophy and certificates and for Best Project Award the Cash prize was of Rs 20,000.

• New session of **ISF** at Dept of ECE, **SA Engg College (SAEC)**, **Chennai**, was inaugurated on **Mar 27**, **2018** by organizing a project contest for III /II year IETE student members. Shri RPB Sundaram, Addl GM (Retd), BEL was the Chief Guest for the contest. Dr JM Mathana, Prof/ Head, EC Dept. delivered the welcome address Dr G Kavya, Prof Dept of ECE and Hony secy of SAEC gave a brief note on IETE and its activities. 330 ISF members actively participated in the contest. 108 projects were enrolled for the contest, 18 batches were shortlisted for the final round. Finally top three were selected and winners were given certificates and cash prizes. Vote of thanks was by Dr R Radhika.

• ISF at Modern Education Society's College of Engg, Pune (Wadia,COE) organized : 1<sup>st</sup> State Level Project Competition and Exhibition for students "SHODH 2018" on Mar 27, 2018. The aim of SHODH-2018 was to offer an opportunity to the students to showcase their talent, research orientation and untapped their potential in front of industry experts. Areas of competition were: Computer and IT; Electrical and Electronics and Telecommunication and Mechanical, Automobile & Production Engg.

• ISF at Dept of ETC, Jayawant Shikshan Prasarak Mandal's, JSPM Narhe Technical Campus, Pune was inaugurated on Mar 28, 2018 under the patronage of JSPM group and IETE Pune Centre. The dignitaries who addressed the gathering were: Shri KR Shende, Hony Secretary, Pune Centre; Prof SK Khedkar, IETE West Zone Mentor; Shri Abhishe; K R Mahajan, Founder and MD, Proto Electronics Engg Services; Prof HN Patil, HOD/ETC, JSPM, NTC; Dr Sajid Shaikh, Assoc Prof/ETC and Shri D Pradhan, AP/ETC. A large number of students were present on the occasion.

# EXTRACTS of speech of Former Chairman IETE Chennai Centre, Col K S Chakravarthi (Retd),(F052203) Vice Chairman, IIPE, Tamilnadu Chapter, on the occasion of XION 18 – Robotics Technical Workshop held at SRM University Institute of Science and Technology, Vadapalani, Chennai on 09 Feb 2018.

.....Just as the Mobile Technology advanced leaps and bounds into 1G, 2G, 3 4G, and now 5G the Industrial Revolution is also taking new avatars. The current phase of Industrial revolution, known as "Industries 4.0" originates from a project in the high-tech strategy of the German Government, which promotes the computerization of manufacturing process. **Industry 4.0** is a name for the current trend of automation and data exchange in manufacturing technologies. It includes cyber-physical systems IOT, cloud computing and cognitive computing, creating what is being called now as 'Smart Factories''. Within the modular structured smart factories, cyber-physical systems monitor physical processes, create a virtual copy of the physical world and make decentralized decisions. Over the Internet of Things, cyber-physical systems communicate and cooperate with each other and with humans in real time, and via cloud computing. Both internal and crossorganizational services are offered and used by participants of the value chain. All of this helps industries integrate the real world into a virtual one and enable machines to collect live data, analyze them, and even make decisions based upon them.

The nineteenth century marked the acceleration and wide adoption of industrial processes. In the twentieth century, technology moved, from the laboratory and research institute to the home. We are now at the cusp of a new technological shift of equal significance: the Robotics Revolution.

The boundaries between smart materials, artificial intelligence, embodiment, biology, and robotics are blurring. This is how robotics will really affect the human race over the next few years. From robots that can monitor and repair the natural environment to nano robots to track and kill cancer, and from robots that will lead the way to planetary colonization, to robot companions to keep us from loneliness in old age.

There is NO part of our society or life that will NOT be affected by future robotics. Instead of a conventional robot which can be decomposed into mechanical, electrical, and computational domains, we can think of a robot in terms of its biological counterpart and having three core components: a body, a brain, and a stomach.

The benefit of this artificial organism paradigm is that we are encouraged to exploit, and go beyond, all the characteristics of biological organisms.( like the characters in the movies like Enthran and Ra one) And the realization of this goal is only achievable by concerted research in the areas of smart materials, synthetic biology, artificial intelligence, and adaptation.

As we walk the path of the Robotics Revolution we will look back at this decade as the one where robotics really took off, and laid the foundations for our future world. When we say Industrial revolution it is just not a revolution of machines, but it's a revolution of mindsets. Not a technology, it's a paradigm. We will soon be at a point where operating robotic systems becomes so ordinary, it will be like using a screwdriver.

As industries from manufacturing to agriculture are reshaped by data science and cloud computing, jobs are being created that demand new skills, which require new approaches to education, training and recruiting. Skills matter for all of these new positions, even if they are not always acquired in traditional ways. We need the best talent. We need the perfect fusion of engineering and computer science. It will influence what kinds of entrepreneurs we will have. By the year 2020 at least ten skills are going to be relevant in the emerging technology of industries of the future: Complex problem solving ; Critical Thinking; Creativity; People management;. Coordinating with others; Emotional intelligence; Judgment and Decision making; Service orientation; Negotiation and Cognitive Flexibility.

One should start acquiring these skills from now itself. Skill gap is a major roadblock for India's growth.

Indian enterprises have been quick to adopt artificial intelligence (AI) in some way. By 2020, about 70 % of firms like Telecom, Media & Technology, Banking, Financial services and Insurance, retail, and healthcare are anticipated to deploy AI. However, concerns around adoption of AI continue, with high cost of solutions, acute shortage of skilled professionals, uncertainty on the return on investment, and cyber security emerging as the key hindrances. To bridge the talent gap, training on the tools, libraries, frameworks and platforms for AI, is essential for those who aspire to become developers, analysts, and engineers on key AI technologies. I think IETE with its tremendous potential of Human resources and Network across the Nation can play a significant role in bridging the talent-gap.

The start ups are the centre of this revolution, The main challenges are not for start ups, but for big corporations. If they want innovation, the big corporations need to bring more entrepreneurs into their company, since it will be hard for big corporations to innovate.

Remember the Future is yours, You are the Future India and the Future India will be you only. You have to begin to work now itself to build an India, which will be the most powerful in the world, most advanced in Technology & Science ,and economically most developed Nation in the world !!

I wish to conclude by quoting one of the inspirational messages of our most loved President and Master, Bharat Ratna Dr APJ Abdul Kalam, who said "You cannot change your future, but you can change your habits. And surely your habits will change your future !!

.....Jai Hind

# **Inspiring IETE Woman Achiever**



Ms Neeta Nathani (M 500327) is an Assistant Professor in the Department of Electronics and Communication Engineering of Gyan Ganga Group of Institutions, Jabalpur, Madhya Pradesh since 2007. She has completed her MTech in Digital Communication from Bhopal which is affiliated to RGPV University, Bhopal. Presently, she has submitted her

PhD thesis in RTMNU University, Nagpur.

Earlier she worked as a Lecturer in the Dept of Electronics & Communication of Sri Ram Institute of Technology, Jabalpur, Madhya Pradesh from 2003 to 2006.

Her main research interests are in the areas of Wireless Communication, Digital Signal Processing and Cognitive Radio. She has participated in various national and international conferences in India as well as in South Korea and USA. Her PhD research proposal was selected among the best research proposals in two places: One in Doctoral Conference, held in Janardan Rai Nagar Vidyapeeth (Deemed) University, in collaboration with CSI and ACM- Udaipur Chapter in 2016; and the other in ACM India Celebration of Women in Computing held in SRM University, Chennai under ACM-W Chennai Chapter in 2017. She has also received Outstanding Paper Award

on "Assessment of Quasi- Permanently Vacant Channels in Mobile Communication Bands for Cognitive Radio" in the 15th IEEE International Conference on Advanced Communications Technology (ICACT - 2013), held in Phoenix Park, South Korea. She has been a reviewer of many conferences and journals. She has also been a session chair and Program Committee member in many international conferences.

Ms Neeta Nathani is associated with IETE Jabalpur Centre since August 2016.

Message	٦
Learning is the process of constantly updating in an ever changing world. Over the past few years, there has been an increasing emphasis on girls and Information, Communication and Technology (ICT) in the development sector. For many girls, access and use of ICT remains a huge challenge. Gender discrimination, lack of confidence, language barrier, low literacy, lack of time and money, restricted mobility due to cultural factors or safety often prevent girls from taking advantage of ICT. I applaud the editorial team of IETE for the hard work and dedication they have invested in realizing this goal and accepting my proposal and wish them success in all future endeavors.	
– Ms Neeta Nathani	

#### FORM - IV (See rule 8 of the PRB Act) Statement about ownership and other particulars about newspaper IETE NEWS LETTER

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Place of publication	: New Delhi
Periodicity of its publication	: Four Monthly
Nationality	<ul> <li>Maj Gen P K Jaggia, VSM (Retd)</li> <li>Indian</li> <li>The Institution of Electronics &amp; Telecommunication Engineers (IETE), 2, Institutional Area, Lodi Road, New Delhi - 110 003</li> </ul>
Nationality	: Maj Gen P K Jaggia, VSM (Retd) : Indian : The Institution of Electronics & Telecommunication Engineers (IETE), 2, Institutional Area, Lodi Road, New Delhi -110 003
Nationality	<ul> <li>Sandeep Kaur Mangat</li> <li>Indian</li> <li>The Institution of Electronics &amp; Telecommunication Engineers (IETE), 2, Institutional Area, Lodi Road, New Delhi -110 003</li> </ul>
Names and Addresses of Newspaper, partners and or shareholders holding more than one percent of the total capital	: The Governing Council of the Institution of Electronics and Individuals who own the Telecommunication Engineers (IETE), 2, Institutional Area, Lodi Road, New Delhi-110 003

I, Maj Gen P K Jaggia, VSM (Retd) hereby declare that the particulars given above are true to the best of my knowledge and belief.

Dated: January 2018

Sd/-Maj Gen P K Jaggia, VSM (Retd) Signature of Publisher



OBITUARY

It is with profound grief we share the news of the passing away of our inspiring stalwart Prof S V Kharkar, Distinguished Fellow-(DF-002419) on 10th Mar 2018 at Pune. He was the founder member of IETE Pune Centre and Centre's ownership status is the living testimony of his passion for the Institution. He was the Chairman Pune Centre from 1980-1982 and 1989 -1991, was elected to the

Council of IETE for 9 years and as Vice-President of the institution for 3 years. He had been one of the driving forces behind the IETE Pune Centre and had made tremendous contributions towards its growth and development. He was elected as Distinguished Fellow of IETE in (2006) and had produced Virtual Electronics Lab for students in the National Project of Distance Education. Prof Kahrkar was the recipient of 1st IETE B R Batra Memorial Award for his long meritorious service to IETE in 2003.

Prof S V Kharkar retired as Professor and HoD, Cusrow Wadia Institute of Technology, Pune. He was the Hony Prof- Bharati Vidyapeeth's College

of Engineering, (1990-95); Co-ordinator - Post Graduate Diploma in Software Technology of National Centre of Software Technology, (Govt. of India) at Tolani Research Institute, Pune (1996-2006). Prof Kharkar actively participated in every activity of the institution till the last days of his life.

IETE deeply mourns the loss of an illustrious member of IETE. His name shall always be associated and remembered with the Institution.



Prof H R Singh (F-029021) Chairman of IETE Indore Sub-Centre and Vice Chancellor, Oriental University, Indore, passed away on 20th Mar 2018 due to cardiac arrest at the age of 58 years. He was the source of inspiration to all. His efforts were appreciated by all at the Centre. He has left behind unforgettable memories to treasure, cherish and emulate.

IETE extends its deepest condolences to the family.

### **IETE Organisational Members**

Narayana Engineering College, Gudur, SPSR Nellore, AP, IETE Organisational Member (G00536) inaugurated a new session of IETE student forum at its college on Feb 3, 2018. The Chief Guest Shri A Subbarao Garu, former GM, BSNL and EC member, IETE, Tirupati, inaugurated the event. He spoke on "Communication Technologies-Opportunities". The Chief Guest highlighted advancements in telecommunication switching systems, protocols used in 1st Generation (IG) to 4th Generation (4G) and steps towards establishing 5th Generation (5G) mobile communication in his address. Earlier the Dept of ECE, had conducted a one week Faculty Development Programme (FDP) on "Extending an Embedded System into FPGAs through Hands on Exercises Using Xilinx Vivado<sup>™</sup> Platform and Zynq Architecture" in association with CoreEl Technologies, Hyderabad, under the aegis of ISF during Dec 7-12, 2017. FPGAs play an important role in Advanced Digital System Design. Dr G Srinivasulu Reddy, Principal, NEC, Nellore was the Chief Guest. Shri K Ramesh Naidu, Sr Manager, Hyd, Shri K Murali, Convener & HoD, Dept of ECE, also graced the occasion. The Sessions were: Lab 1: Xilinx Vivado Design Flow (Simulation and Synthesizing RTL Design); Lab 2: Simple Hardware Design; Lab 3: Adding Peripherals in Programmable



IETE PAC at Narayana Engineering College, Gudur, SPSR Nellore, AP, inaugurating new ISF session

Logic. FDP includes: Both theory & hands on exercises using Xilinx Vivado TM Platform and Zynq Architecture.

• Adhi College of Engineering & Technology, Chennai (G00508) & ISF conducted a seminar on "Recent Trends on Antennas for Industrial, Scientific and Medical Applications" on Dec 28 2017. Topics covered were: (i) Antenna Arrays (ii) Nano and metamaterial antennas (iii) Drawbacks of existing antennas (iv) Optical antennas (v) Capsule Endoscope system (vi) Carbon Nanotubes. Dr D Sri Ramkumar Professor/ECE, National Institute of Technology, Trichy graced the event as Chief Guest. Dr A Devaraju Principal/ACET delivered the presidential address, while Dr K Sakthisudhan, HOD/ECE gave the welcome address. 30 external students, 125 internal students and faculty members participated. Chief Guest spoke on Effective learning and methodology for Antennas. Dr K Annaram, Prof & HOD /ECE, Jerusalem College of Engineering, Chennai, presided over the afternoon session. He spoke on EMI/EMC for antennas applications. Absorber materials used in low frequency as well as high frequency, Electromagnetic compatibility measurements were also highlighted. He also explained chamber validation requirements and Mil std 461E.



Felicitations after the seminar, IETE PAC- Adhi College of Engineering & Technology, Chennai

# **Technology News Snippets**

- The 'National Digital Communications Policy 2018' aims to provide broadband coverage at 50 megabit per second to every citizen, attract \$ 100 billion investment in the sector and create 40 lakh jobs by 2022. DoT had set up a dozen working groups to discuss broad contours of the Policy.
- 2<sup>nd</sup> edition of ET Telecom the 5G Congress 2018 on "Developing Roadmap for the next Wireless Revolution will be held in September 2018". The fifth-generation of wireless technology is expected to not only enable mobile networks to provide faster and more reliable communication to their customers but also release extra bandwidth needed to create a network of 'Internet of Things' for increasing operational efficiencies, enhancing business/government outcomes, and improving people's experience.
- Reliance Jio has begun offering fibre to the home (FTTH) broadband connections with 1.1 terabytes (TB) of free data at speeds of 100 megabits per second (Mbps) in select markets in the country.
- Telecom tribunal has stayed a regulatory order that reset the threshold for predatory pricing and required operators to report all tariffs in the interests of transparency and non-discrimination, offering relief to India's top teleos.
- Bharti Airtel will offer 30 GB free data to its customers who upgrade from 2G or 3G handsets to 4G smartphones. Prepaid customers will get 1 GB data free every day for 30 days in addition to the pack they opt for, while postpaid customers will get the same amount of data (with rollover) in their first bill cycle apart from their plan benefits
- Mobile tower firms led by industry group Tower and Infrastructure Providers Association sought alignment of Right of Way 2016 rules from the National Highways Authority of India to deploy necessary infrastructure for wireless connectivity, needed for Centre's prestigious Financial Inclusion and Digital India initiatives.
- The fear that AI may lead to loss of jobs is often expressed. But AI doesn't replace humans. It only enhances their capacity to do a job. It can take care of repetitive and unimaginative tasks, allowing the human mind to be applied to more creative pursuits. As it grows, the AI field will itself create many more job opportunities.
- Blockchian implementation worldwide is still at its nascent stage, revealed a Gartner survey that showed that only one per cent of CIOs indicated any kind of blockchain adoption within their organisations.
- Reliance Jio has come up with a 5-week student learning program 'Digital Champions' which would enable students to learn about digital technologies for businesses in the digital age. It will guide students through a digital toolkit on new age problem solving.
- The US, Japan and Singapore have proposed free flow of cross-border data electronically, prohibition of server localisation and formation of clear processes for government intervention invoking data privacy, moves that will require India to safeguard its interests.
- India is in discussions with South Korea for jointly setting up 5G test laboratories. Initiative of partnering South Korea was taken by the telecom minister Manoj Sinha during his visit to Mobile World Congress in Spain.
- Samsung Networks said that the fifth-generation technology or 5G will allow Indian telcos to implement the wireless fiber that will help them address the last-mile connectivity challenge in the country.

# **Call for Nominations for IETE Awards-2018**

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

The Call for Nominations is now open for the year 2018.

Nomination Submission Deadline: IETE Main Awards and IETE Corporate Awards: May 31, 2018.

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

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

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

#### IETE AWARDS

#### IETE MAIN AWARDS

- ➢ IETE Ram Lal Wadhwa Award (Electronics and Telecommunication Engineering)
- ➢ IETE Hari Ramji Toshniwal Award –(Electronic Instruments and related Systems)
- IETE Bimal Bose Award –(Power Electronics)
- IETE Lal C Verman Award –(Standardization, quality control and precision measurements)
- IETE IRSI (83) Main Award & IETE IRSI (83) Young Scientist Award (Radar Science & Technologies)
- > IETE Flt Lt Tanmaya Singh Dandass Memorial Award-(Avionics)
- IETE- Prof K Sreenivasan Memorial Award– (Teaching in electronics and telecommunication engineering)
- IETE-Prof SVC Aiya Memorial Award- (Electronics and Telecommunication research work)
- IETE Prof S N Mitra Memorial Award- (Radio broadcast science and technology)
- IETE-CEOT Award (Biennial)- (opto-electronics covering materials, devices, circuits, technologies, systems & applications)
- IETE B V Baliga Memorial (Electronics and Telecommunication with emphasis on R & D and industrial development)
- IETE-NVGadadharMemorialAward-(Electronics and Telecommunication Engineering with emphasis on Mobile Radio Communication)
- IETE B R Batra Memorial Award (Selfless service to the cause of the IETE)
- > IETE R S Khandpur Award (Medical Instrumentation)

- ➢ IETE- Brig M L Anand Award- (Applications of networking and internet)
- IETE- Biman Behari Sen Memorial Award (Electronics and Telecommunications with emphasis on R & D and industrial development)
- IETE-Life Time Achievements Award (Electronics, Telecommunication & allied fields)
- > IETE- Smt Manorama Rathore Memorial (Electronics and / or Communication)
- IETE- Smt Ranjana Pal Memorial Award (RF Communications, Electromagnetic, Antennas, Microwaves Circuits, Devices etc.)
- IETE-Smt Triveni Devi Gupta Memorial Award (Electronics, Telecommunications, Medical Electronics, Broadcasting, IT, ICT, E-Governance, Computer Technology, RF, e-Education, Electrical Technology).
- IETE-Technomedia Award- (Electronics and Telecommunication, Computer Science, Information Technology Engineering)
- > IETE- Shri Devi Singh Tyagi Memorial Award (Avionics).
- IETE-Shri P P Malhotra Memorial Award- (Electronics industry / academia)

#### IETE CORPORATE AWARDS

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

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

#### If you have any query please mail us at mgeditor@iete.org or contact : +011-4353845

# **Awards & Achievements**

Dr Mohd Umar Farooq (AM- 224915) IETE alumni, 2011 batch and ALCCS (Advance Level Course in Computer Science) passout from IETE Hyderabad Centre, received his PhD Degree in Computer Science and Engineering from Jawaharlal Nehru Technological University, Hyderabad. His thesis was on "Vehicular Adhoc Networks".



Dr R Pradeep (M-128264), is Honorary Treasurer, from IETE Thiruvananthapuram Centre and has been awarded Doctorate Degree from University of Kerala.

We take this opportunity to congratulate both the members and wish them the best in their future endeavours.

Printer and Publisher : **Maj Gen P K Jaggia, VSM (Retd)** on behalf of Governing Council of the Institution of Electronics and Telecommunication Engineers (IETE), Published at 2, Institutional Area, Lodi Road, New Delhi-110 003 (India) and Printed at **Dolphin Printo-Graphics**, 4E/7, Pabla Building, Jhandewalan Extension, New Delhi- 110 055 (India), Editor : **Mrs Sandeep Kaur Mangat** copyright©2017 by the IETE (Cost per Copy : ₹ 4/-)

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