



Message from the Chairman



Dear Members,

It is my great pleasure to extend heartfelt greetings to the readers of the renewed first issue of the IETE, Hyderabad Centre's Newsletter for the August 2020 edition. To give a recap, IETE - Hyderabad

was established in the year 1974 with primary responsibility of promoting IETE activities at the regional level and looking after the interests of the Electronics and Telecommunications field. One of the main tasks of our Committee has been to publish an IETE Bi-Monthly Newsletter. Regrettably, during the years 2014 to 2020, the Newsletter was suspended as decided by the then Committee. The new Committee, which has come to office since 12th July, 2020, has decided that the Newsletter is an important medium for communication and keeping all our corporate members updated about the latest developments and happenings in the Centre. The current committee will ensure and strive to publish selected articles on Electronics & Computer Sciences Engineering. The Newsletter will be published bi-monthly, starting mid-August, 2020.

Although the newsletter format is limited in the amount of in-depth information it can provide, we will make every effort to describe, if only briefly, our latest achievements in all areas and dimensions of engineering and research as well as the activities of the committee.

Any criticism, opinions, and guidance will be highly appreciated by the editors of the Newsletter.

We at IETE- Hyderabad will strive to create an environment for nurturing innovation, creativity and excellence in our members and student community through this Newsletter. The ultimate goal is to provide a common platform for engineers and researchers to confidently and competently face the challenges of competition by keeping them informed about the current situation in technical education and research and wide exposure to the state-of-art practices.

We have till date 44 IETE Student Forums from various engineering colleges located in and around Hyderabad. Our Centre is helping the final year engineering students in doing their Major Projects by providing the Project Guides from the industry and various research organisations. IETE is actively participating in conducting various seminars, workshops, trainings etc in association with the ISFs at their colleges and also at the IETE Centre. We would like to increase such activities to help the ISFs in the coming months.

Before I close, a word on the current pandemic situation we are all in globally. In these challenging times of COVID-19, I would like to remind that every one of us has a responsibility at this time. I request all of us to be safe – this is paramount. Stay healthy and try to help the people around you in your own way, by following the guidelines of the government and by sharing knowledge and material inputs in whatever way you can. Thank you!

Er. K. Gnaneshwar Rao, (Chairman)

Independence Day- 2020

On the Occasion of 73rd Independence Day Celebrations, the National Flag was hoisted by Chairman, Er. K Gnaneshwar Rao on 15th August 2020 at 11-30 am in IETE Hyderabad premises. EC Members and Staff Members of IETE were present.



Executive Committee Members: Profiles

Er. K. Gnaneshwar Rao (Chairman)



Gnaneshwar Rao Kamtam holds B.Tech (ECE), M.Tech (CSc) and is pursuing PhD from Osmania University, Hyderabad. Worked as 'EMS Software Developer' on People Soft for Telegence Corporation

Canada. Since October, 1988, he has been working as an Engineer Grd-1 & Technical Head at the Educational Multimedia Research Centre, Osmania University, Hyderabad.

In the year 2009, he was selected and sponsored by USTTI & IEEE (USA) for the course on "New Technologies in Broadcasting" at Voice of America, Washington DC, USA to study the Digitalization of TV Production and Transmission. Received UGC National Award in "SOUND" category for the Video Programme title "BOOKFARE". Won many UGC-MHRD (National) & Sony Corporation Japan (International) Awards for the Educational Video Documentaries for which he provided technical support. Actively participated in the operationalisation of 'Satellite Interactive Terminals (SITs)' for the UGC - MHRD EDUSAT Network.

Produced and directed 100 Educational Video Documentaries and extended technical support for more than 1500 Educational Video Documentaries and e-Content Programmes which were Broadcast on National Television Network. Training the faculty, scholars & students from various parts of India in Educational Video Programme Production and Presentation Skills. Presented papers at many conferences and seminars. He is a Life Fellow of IETE and Life Member of BES, ISOI, BVB etc.

Er. Nuli Namassivaya (Hon. Secretary)

Nuli Namassivaya was born in August 1967 at Eluru, Andhra Pradesh. He obtained B.E. from Gulbarga University in 1988 and M.Tech. from Jawaharlal Nehru Technological University in 1994



with Automation and Control Systems as University Topper. Presently he is working as Associate Professor in Maturi Venkata Subba Rao (MVSR) Engineering College, Hyderabad. He published 45 papers at International & National Journals and Conferences. Six of them won Best Paper awards. He has more than 3 decades of teaching experience. He is a Life Fellow of IETE and a Life Member of CSI, IE(I), ISOI, BES and ISTE. He served in various capacities in the above mentioned Professional organizations. He obtained Rashtriya Gaurav Award by India International Friendship Society, New Delhi on 11 March, 2005, and Best Citizens award in recognition of exceptional caliber and outstanding performance in chosen area of activity by Best Citizen of India, New Delhi during January, 2006. His Biographical note is included in Asia/Pacific Who's Who in July, 2016.

Prof. C R Sarma (Treasurer)



A product of MIT, Chennai in Electronics Engineering,

Prof. C R Sarma has over 25 years of academic and R&D experience and is currently a Professor of ECE, with specialization in the

Embedded Systems and Internet of Things. A product of MIT, Chennai in Electronics Engineering, Prof. C R Sarma has over 25 years+ of academic and R&D experience and is currently a Professor of ECE, with specialization in Embedded Systems and Internet of Things. He is an author of many books on Computer Networks, Embedded Systems etc and engaged in R&D of Virtual Passenger, Tele medicine Kiosk and Geriatric Haptic gadgets. His past-time activities include Astronomy, Amateur Radio, conducting corporate training programmes and developing hardware & software solutions for IoT etc. Prof Sarma has to his credit many research publications, two Invention awards and two Patents. Co-Founder Sri Siddheswari Electronics Equipment.

Executive Committee Members: Profiles

Dr. K. Seetha Ram Babu (Vice - Chairman)



Dr. K. Seetha Ram Babu has over Twenty Five (25) years of experience in the management of work analysis design, implementation, re-engineering and upgrades in SAP. He worked in USA and Singapore at various capacities. He work as SAP

practice head at CAPGEMINI. He is a Board Member, Matrusri Education Society, Hyderabad and a Governing Council Member, College of Education, OGA Pargi. He is a BE from OU, MCom and MBA from IGNOU, Mtech from IETE and PhD from JNTU.

Dr. Babu is a past Chairman, Computer Society of India, Hyderabad Chapter, Vice Chairman, Instrumentation Society of India, Hyderabad Chapter, and an EC member, Indian Science Congress Association, Hyderabad Chapter. He is also a Member of Institution of Engineers (India), Indian Society for Technical Education, Broadcast Engineering Society (India) and The Institute of Asian Studies.

Prof. A. Ravi Kumar (Imm. Past Chairman)

Prof. Ravi Kumar Annavarapu has over 36 years of experience in the academic, research and industrial fields. He held senior positions in ISRO, Department of Science &



Technology, Indian Railways, Palatex Intl Abu Dhabi, Efftronics Systems Pvt Ltd, AP Antenna Products Ltd and several Engineering colleges.

He studied B Tech from VRS Engineering College, M.Tech from JNTU, Hyderabad and MBA from JNTU, Kakinada. He has been contributing actively to the growth of IETE for the last 25 years by associating himself closely with past presidents and corporate members.

Sri Ashwani Kumar Sangamker (Vice - Chairman)



Sri Ashwani Kumar Sangamker holds AMIETE and M.Tech in Advanced Electronics from JNTU, Hyderabad. He joined Bhabha Atomic Research Centre, Trombay as Scientific Officer 'SC' in the year 1985. There he was involved with

the development of Robotic arm, Ion Bombardment Furnace, Process automation for the inspection and loading of nuclear pellets in to fuel rod.

In 1988 he joined DRDL, Hyderabad where at he was Deputy Director for realization of Mobile Command Post required for Command Control and Communication of BRAHMOS Missile. From 2004 to 2012 he moved to Project NAG (Anti Tank Guided Missile) as Project Manager for on-board electronics. He was involved in the design of warhead system electronics, onboard power distribution and Training Simulator.

In 2018 he joined Hyper Sonic Cruise Vehicle project as Head, Electrical Integration. He has configured total electrical on board systems and designed the panel separation system to eject cruise vehicle from the launch vehicle at an altitude of 32 Kms. He has received innovation award for the development of Transportation lock for NAG Missile using smart material, AGNI award and Technology group award. Subsequent to superannuation he continued to work for DRDL as consultant.

C.V. Keerthi Latha - EC Member



Smt.C.V. Keerthi Latha has 8 years of Teaching Experience as Assistant Professor in the department of ECE, Stanley College of Engineering & Technology for Women, Hyderabad. She has B Tech and ME degrees

and currently pursuing Ph.D. She has published technical papers in many national and international journals. She has conducted many Faculty Development Programmes, Workshops and guided UG and PG students. She was awarded as 'Best Guide' for UG Projects in the year 2016. She has also participated in several industry related project works.

Dr. P. Naveen Kumar - EC Member

Dr.P. Naveen Kumar has obtained his Ph.D in Electronics and Communication Engineering from Osmania University. He has over 20 years of teaching and research experience, with more than 80



Executive Committee Members: Profiles

research publications to his credit, some of which also received Best Paper awards. Also recipient of "Sri C V Raman Memorial Award- 2019" on National Science Day 20th Feb 2019 by TCC, Hyderabad. He has completed several research projects from ISRO, DST etc. and has established a new Advanced Global Navigation Satellite System Research Laboratory in Collaboration with ISRO, in the Department of ECE, OU. He has visited Japan, Germany, USA, Malaysia, Thailand, Oman, Czech Republic, Vatican City and Italy on professional assignments. He is currently working as Associate Professor and Coordinating Officer, MOU(SAP, ISRO) Dept. of ECE, OU. His areas of interest include Global and Regional Navigation Satellite Systems, Satellite based Augmentation System and Ground based Augmentation System.

Smt. T.Sandhya-EC Member



Smt. Tuti Sandhya holds B.Tech (ECE), M.Tech (VLSI) and Pursuing PhD from JNTU, Hyderabad. Worked as Assistant professor in 2 reputed colleges in Hyderabad.

Established TLC (Teaching Learning Center) at Sphoorthy Engineering College. Selected as Indo Universal Collaborative Committee for Engineering Education (IUCEE) Leader. Received the Title "Ing. Paed.IGIP" in the form of a Certificate during ICTIEE-2018, Madurai. Established CEED (Center for Engineering Education Development) at KGR CET. Received Top Social Learner Award from Wiksate. Received Certificate of Completion for IUCEE, International Engineering Educator Certification Program on June 18, 2015, (January-June 2015).

Received an award for successful participation in the "GENTLE" Project on the occasion of ICTIEE-2015, Bangalore on January 8, 2015. Conducted several 5/2/1 Day FDP/ workshops. Presently Working as Resource Person at Mahatma Gandhi National Council of Rural Education.

Devanoori Bhanumurthy -EC Member



Devanoori Bhanumurthy Acquired B E degree in electrical engineering from Andhra university engineering college in 1967. Fellow member IETE From March 1969 to September 1971 worked in overseas

communications service (present videsh sancharnigam). From October 1971 to May 1974 worked in Defence Ionospheric research station, DRDO unit in Jammu & Kashmir. From June 1974 to 30th September 2005 worked in Defence electronics. Presently Working as Resource Person at Mahatma Gandhi National Council of Rural Education. research laboratory in various capacities and retired as Scientist F. For a brief period from January 1987 to June 1988 served in Geological survey of India as senior geophysicist (Instrumentation). From 1993 onwards up to retirement was heading Instrumentation division of DLRL. Seven of his articles were published in electronics journals of international repute, in Ideas for design columns. After retirement started an R&D centre for Photovoltaic systems.

Other publications: 'Trap and use Solar energy. It is free!', by Visalandhra publishers, AP. Cycle Katha (Telugu). Published by Navachethana publishers.

Rylubandi katha (Telugu) Published by Sahithi publishers, Vijayawada.

Dr. D. Rama Krishna Reddy - EC Member



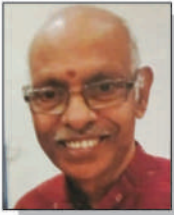
Dr. Rama Krishna Reddy Dubbudu holds MCA, M.Tech (CSE), Ph D, PGDBM, TS-SET, PGDCL degrees and is working as Asst. Professor in Computer Science, Department of Mathematics, University College of

Science, Osmania University, Hyderabad. He has over 18 years of experience spanning both academic and industrial fields.

He has been to UK on professional assignments. Dr Reddy has presented papers in several national and international seminars and has over 22 research publications to his credit. Dr Reddy has been on the EC of IETE, Hyderabad Chapter since 2018. He is also a Member of ISOI and CSI.

Executive Committee Members: Profiles

Dr. V. Rama Rao - Co-opted Member



Dr. Veluri Rama Rao has a wide-ranging experience of over 50 years, spanning the fields of Radio, Television, Film, and also Satellite Communications, Training of Media professionals and in Distance

Education. He served in All India Radio and Doordarshan in various capacities, as Manager-Maintenance and Professor TV Engineering at FTII Pune, as Joint Director(Engineering) at Indira Gandhi National Open University, as CEO of SAPNET, as Director (Media) at Maulana Azad National Urdu University and as CTO of SV Bhakti Channel. Internationally, he served as Technical Consultant to UNESCO, UN-ESCAP, UNDP, ADB and COL on several projects concerning use of Information and Communication Technologies in Education. Dr. Rao has over 40 publications in national/international journals, 5 book chapters and several Self-instructional units for Open University courses to his credit. Dr Rao is a Life Fellow of IETE, Life Fellow of BES and Member ISCA.

Rhode Island, USA. He has published several technical papers in reputed technical journals, addressed many conferences and organised innumerable workshops. He has guided over eight Ph.D. students. Prof. Gadgay has been the Chairman of IETE Gulbarga Sub-centre since 2012 and contributed immensely to the sub-centre's growth and activities.



Dr. Niranjan Prasad

Dr. Niranjan Prasad presently working as Scientist-G in DLRL Hyderabad Laboratory of DRDO under the Ministry of Defence, Govt. of India. After his B.E. (ECE) Degree from

BIT, Ranchi University in 1987, DRDO EFC-3 Programme at DIAT, Pune, he joined DLRL, Hyderabad as Scientist-B in the year 1988. He obtained his M.E. and PhD Degrees from Osmania University, Hyderabad in the years 1997 and 2008 respectively.

Dr. Prasad worked in the Design, Development, Integration and Evaluation of Active Integrated Antenna, Communication Electronic Warfare (EW) Antennas, Antennas for IFF Akash of Prestigious Missile Programme IGMDP. Later on he was instrumental in Designing and Developing Radar Jammer Transmitters and integrated Electronic Counter Measure Systems for various DLRL Projects. Till recently, he was heading Modelling and Simulation Division of Directorate of Army Projects and as Deputy Project Director of Project National Open Air Range (NOAR). Presently, he is working in the areas of AI and Machine Learning based Cognitive EW Technologies for its development by DRDO Labs.

He published over 25 technical papers in reputed National & International Journals and presented in Conferences in India and abroad. Guided more than 100 BE/B.Tech. and M.E./M.Tech students and five Ph.D. scholars.



G C Members



Prof. Basavaraj Gadgay

Prof. Basavaraj Gadgay is a multi-faceted personality with over 26 years of experience in academic and administrative areas, of which 13 years are as Principal, Professor and

HoD. Currently he is a Professor and regional Director I/C, VTU, Kalaburgi, Karnataka State. Prof. Gadgay has a BE from Guru Nanakdev Engineering College, Bidar, ME from Gulbarga University, Gulbarga, and Ph.D. from JNTU, Ananthapur.

His many academic accomplishments include Study Exchange visits to premier institutes like MIT, Harvard, New England, Brown in USA, and visits to several countries towards cultural and vocational studies. He is an Honorary Citizen, City of Quincy, Massachusetts State of USA. He has letters of appreciation from the House of Massachusetts State and from the Mayor of

Webinar-5

Prof. Dr. C V S Rao Memorial Lecture



TITLE: Latest Trend in Information Technology and Power of Open Source Software

Date: 23rd August 2020 (Sunday) at 10.30 AM

Online: Through Zoom Cloud Hd Video Meeting App



Dr. Soumen Kumar Roy

Scientist - G, Technology Director IT DRDL, Hyd.

EVENT :1

Vignan's Institute of Management and Technology for Women

Department of ECE conducted Seminars on 16, 17 & 18 July 2020 on the following topics:

1. Challenges in 5G Communication
2. Innovation Towards Startup Incorporation & IPR Generation
3. INDUSTRIAL AUTOMATION

Resource persons:

Dr. K. Jagadeesh Babu, Professor & HOD, A.P.

Dr. Biswarup Neogi, Associate Prof. & HOD, W.Bengal

Dr. Bivas Roy, Principal, West Bengal.

EVENT :3

VIGNANA BHARATH INSTITUTE OF TECHNOLOGY

Date: 10 Aug. 2020 **Venue:** Virtual Session - Zoom

Topic: Engineering Journey For A Better Success

Speaker: Mr. S. A Hari Prasad

H.O.D and Professor of Electronics and Communication Engi. - Jain University

Faculty : Mr. P. V Rao sir , Mrs. B. Rajeshwari madam , Mrs. R. Neeharika madam

EVENT : 2

Institution of Electronics & Telecommunication Engineers APEX Forum

Subject: Envisaging network threats by adversaries, prospective preparation India 2020.

Panellists:

1. Brig Dr VD Abraham, SM, Former Vice Chancellor, SVU,UP
2. Dr M Lakshmi Narayana, Sc'H, DRDO, Hyd.
3. Mr Karthik Parekh, CEO, Fast Tech Telecommunications, Mumbai.

Date & Venue: On 19th July 2020, at 10:00Hrs at Professional Activity Centre, Hyderabad Institute of Technology and Management(HITAM), Hyderabad.

EVENT: 4



St. MARTIN'S ENGINEERING COLLEGE

in association with IETE conducted An International Online Workshop on IoT and Cloud Computing Techniques for Data Analysis with Modern AI Tools. From 16-08-2020 to 18-08-2020.

By Department:(ECE)The FDP was inaugurated by **Dr. P. Santosh Kumar Patra, Principal** followed by three sessions presented by Technocrats and eminent Professors from different countries. The resource persons were Dr. Inderpreet Kambo, Commercial Data Strategy, and Innovation, CRA Ltd, Boston, Massachusetts, USA, and Dr. Alex Noel Joseph Raj, Department of Electronic Engineering, College of Engineering, Shantou University, China, Dr. Gunasekaran Thangavel, Program Director (Telecommunication Specialization), Sultanate of Oman.



WEBINARS

Thanks to the vision and initiative of Dr Seetha Ram Babu, Vice-Chairman, a series of webinars were planned under the aegis of the Hyderabad Centre, which kept the Centre's activities going full steam, despite the stifling Covid-19 pandemic. So far, three such webinars were organized and they were all well received by the members, with average participation of around 25. The topics were on areas of current technological interest and the resource persons were all leading experts in the field. What follows is a brief review of the webinars:

Webinar-1

TITLE:
The Role of Electronics Engineering Fraternity in Carving a Super Techno Power India

Date: 26th July 2020 (Sunday) at 10.00 AM
Online: Through Zoom Cloud Hd Video Meeting App



M. Narayan Namboodripad

Outstanding Scientist/ Deputy Director (AVN), Vikram Sarabhai Space Center, ISRO, Trivandrum.

Webinar-2

TITLE:
IOT- Its Evolution, Objectives and Implementation.

Date: 02nd August 2020 (Sunday) at 11.20 AM
Online: Through Zoom Cloud Hd Video Meeting App



Prof. C R Sarma

WILP - BITS - Pilani.

Webinar-3

TITLE:
Missile Technology, Indian Initiative

Date: 09th August 2020 (Sunday) at 11.00 AM
Online: Through Zoom Cloud Hd Video Meeting App



Prof. K S R Murthy

Former Scientist 'G', DRDL,

Webinar-4

TITLE:
Wireless Sensors Networks & Applications

Date: 16th August 2020 (Sunday) at 11.00 AM
Online: Through Zoom Cloud Hd Video Meeting App



Dr. Nukala Srinivasa Rao

Professor & Head ECE, Matrusri Engg. College, FIE, FIETE, SMIEEE



*Greetings from IETE
- Hyderabad
Centre*



Webinar-6

TITLE:
Disruptive Technologies and its Dual Applications

Date: 30th August 2020 (Sunday) at 10.00 AM
Online: Through Zoom Cloud Hd Video Meeting App



Mr. Anupam Tiwari

Senior Member - IETE
(M-209735)

GULBARGA SUB CENTRE EC FOR 2020-22



Installation of Executive Committee 20-22 IETE Gulbarga Sub Centre held on 27th August 2020

Dr. Shubhangi D.C : Chairperson, **Ambresh Bhadrashetty** : Secretary, **Deshpande Dhiraj kumar R** : Treasurer, **Patil Nagabhushan** : Vice Chairman, **Dr. Malashetty Ravi** : Vice Chairman, Members: **Maroof Najmuddin M**, **Patil Rajkumar Baburao**, **Bhyri Channappa M**, **Ansari Juhi Nishat**.

PROF. B L DEEKSHATULU ENDOWMENT FUND



Date: 21-07-2020 Amount Rs.50,000/-



Date: 15-08-2020 Amount Rs.50,000/-

Er. K Subbi Reddy donated an amount of Rs.1,00,000/- on 15th August 2020 towards Prof. B L Deekshatulu Endowment Fund as he promised in the AGM held on 12th July, 2020. Earlier, he donated Rs.20,000/- to this fund, thus total contribution to this noble cause amounts to Rs. 1,20,000/- so far.

Editorial Team

Er. K. Gnaneshwar Rao
Er. Nuli Namassivaya
Dr. K. Seetha Ram Babu
Dr. Veluri Rama Rao

IETE NEWS invites from the readers short articles/ letters on technological matters for publication in the news letter. Not to exceed 300 words.

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