Message from the Chairman

Dear IETEian,

At the outset, let me thank all the IETE fraternity of Hyderabad Centre for electing me - and my team of EC - unanimously to serve you for the term 2022-'24. I would assure you that our new team will spare no effort in nurturing our beloved Centre and in keeping it at the forefront of IETE activities across the nation.

Close on heels after the takeover of the new team came the 65th IETE Annual Convention (AIC) and this time Hyderabad was chosen as the venue. It was a great challenge and an opportunity to conduct this two-day national event on 25-26 Sep., 2022 and everything went off very well, thanks to the active cooperation extended by all of you. The convention was preceded by the Annual General Body Meeting on 24th, which was chaired by the then President Prof.(Wg Cdr) P. Prabhakar, with the Secretary General, Treasurer and several GC members present. Both the AGM and the AIC were well attended. There was a good representation of the student community as well. It was indeed a privilege for our Centre to play host to an event of such magnitude.

An innovation that we could successfully bring in this time is that, as a curtain raiser to AIC, pre-tutorial seminars were held simultaneously at five different venues for the benefit of the student community: 'Real world Applications of AI&ML' at MVSR Engineering College; 'FPGA based architectures for IoT sensors and sensor applications' at Matrusri Engineering college; 'Smart City using smart sensors' at Ellanki College of Engineering ; 'Innovations and Futuristic Solutions in AI&ML' at Stanley College of Engineering & Technology; ' AI competencies in Data Science' at Pallavi Engineering college. The response to these tutorials was overwhelming. I am also happy to share with you that, during the Convention, our Centre was honoured with the 'Second Best Centre' award.

Yet another happy development is that Dr. V. Gunasekhar Reddy has taken over as our new IETE President for the term 2022-'23 during the AIC. He was elected to this high office which shows his pre-eminence and universal acceptability across the Institution. As you are aware, Dr. Reddy served as our Centre's Chairman in the past and, even after his elevation to the Governing Council, continues to patronise our Centre, which he considers as his parent centre. Hearty compliments to the new President! It is our fervent hope and wish that the Hyderabad Centre will be doubly blessed during his presidency.

The Covid pandemic is happily behind us, so let us look forward to a more active and vigorous professional and academic calendar in the days to come. We are now able to conduct many activities (EC meetings, Endowment Lectures, Memorial Lectures, Special events, Student projects, etc.) in the face-to-face mode. The weekly Knowledge sharing sessions, however, will continue in the online mode and we may upgrade them to the hybrid mode in due course. We are planning to add some new activities as we go along, resources crunch notwithstanding.

I request all of you once again for your continued support and participation.

Prof. Nuli Namassivaya
(Chairman)

Frontier Information & Communication technologies for Atmanirbhar Bharat

"The Prime Minister's call for Atmanirbhar Bharat has galvanised the entire manufacturing sector in the country, including in particular the Information and Communications technologies," said Dr.G.Satheesh Reddy, Scientific Advisor to Raksha Mantri, while addressing the Annual Convention of the Institution of Electronics and Telecommunication Engineers (IETE) at Hyderabad on Sunday, Sep 25. "Till recently, even simple things like routers, servers, switches etc. were all being imported but now, thanks to the PM's visionary leadership, the situation has changed dramatically. The information and communication technologies are at the core of this programme and IETE can play a leading role in this context with its nationwide presence of eminent engineers and scientists in different areas of specialisation." Dr. Reddy was the Chief Guest at the two-day Convention attended by a cross section of IETE's corporate members, leading industrialists, academia and engineering scholars from different parts of the country.

Nonagenarian and Padma Sree awardee Dr. T.H. Chowdary, who was the Guest of Honour at the event, while recalling his long association with IETE, suggested that the electromagnetic spectrum, being a natural resource like air and water, should not be subjected to sale/auction by the government. Rather, it should be made free, so that cost of communications can be drastically reduced for the benefit of the poor. IETE should prevail upon the government for necessary policy changes in this regard, he said.

Prominent among the dignitaries who graced the Convention were Dr. V. Gunasekhar Reddy, President of IETE, Wg. Cdr. P. Prabhakar, Past President, Dr.M.H. Kori, Vice-President, Dr.K. Jaya Sankar, South Zone Mentor, Shri K. Srinivas, GM, Bharat Electronics Ltd, Gp.Capt. Sonpal singh, Secretary General, Shri Sunil, Treasurer, Dr. K. Seetha Ram Babu, GC Member and Er.Nuli Namassivaya, Chairman, Hyderabad Centre.

Prof.B. Yagnanarayana, INSA Hon. Scientist, IIIT, Hyderabad delivered the 54 th Bhabha Memorial Lecture, while Prof. Arun Kumar, Centre for Applied Research, IIT, Delhi delivered the 45 th Ram Lal Wadhwa Award lecture. Several noted experts presented papers on specific topics related to frontier areas of technology.

"We at the Hyderabad Centre of IETE feel proud and honoured to host a national event of this magnitude," says Er. Namassivaya. "Hyderabad Centre has always been at the forefront of IETE activities and the successful conduct of the 65 th Annual Convention is one more feather in its cherished cap."

ENDOWMENT & MEMORIAL LECTURES

M. Madan Mohan 19th Memorial Lecture

IETE Hyderabad Centre organized Sri M. Madan Mohan 19 th Memorial Lecture on 04.08.2022 "IoT Based Vehicle Accident Monitoring System for Smart CITY" delivered by Sri. Ajay Kumar GC Member. The event were attended by Distinguished Members, Scientists, Professors, Faculty, Students and Members of the Centre. Sri Ashwani Kumar Sangamker, Hony. Secretary coordinated the event. The Centre Chairman Prof. Nuli Namassivaya has presided over the function.

Prof. Dr. C V S Rao 7th Memorial Lecture

IETE Hyderabad Centre organized Prof. Dr. C V S Rao 7th Memorial Lecture on 25.08.2022 6:00PM at IETE, Hyderabad Centre. The lecture will be on "Securing Multi-Cloud Environment" delivered by Sri Arun Annavarapu Director, SolarWinds.The event were attended by Distinguished Members, Scientists, Professors, Faculty, Students and Members of the Centre. Sri Ashwani Kumar Sangamker, Hony. Secretary coordinated the event. The Centre Chairman Prof. Nuli Namassivaya has presided over the function.
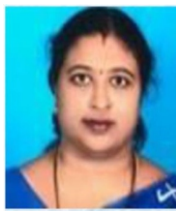
IETE NEWS Letter

WEBINARS

Webinar– 97

TOPIC : "Fostering Machine Learning for Smart Society"
DATE: 3rd July, 2022 (Sunday) at 10.30 AM
ONLINE: Through Google Meet HD Video Meeting App

Dr. Uma N Dulhare
Professor & Head, CSE&AI
MJ College of Engineering & Technology

Webinar– 98

TOPIC : "Signal Degradation issues in Optical Fiber Communication"
DATE: 10th July, 2022 (Sunday) at 10.30 AM
ONLINE: Through Google Meet HD Video Meeting App

Sri M.V. Satyanarayana
Telecom Faculty Member, IRISET, Sec'bad

Webinar– 99

TOPIC : "PLASMA ANTENNA TECHNOLOGY & APPLICATIONS
DATE: 17th July, 2022 (Sunday) at 10.30 AM
ONLINE: Through Google Meet HD Video Meeting App

Dr. Nukala Srinivasa Rao- SMIEEE; FIETE
Professor, ECE at Matrusri Engg. College. Hyderabad

Webinar– 100

TOPIC : "PERFORMANCE COMPARISON OF NAVIGATION SYSTEMS"
DATE: 24th July, 2022 (Sunday) at 10.30 AM
ONLINE: Through Google Meet HD Video Meeting App

Er. Nuli Namassivaya
Associate Professor, ECE, MVSREC
Chairman, IETE and Secretary, BES (I), Hyderabad .

Webinar– 101

TOPIC : "Stress Management"

DATE: 31st July, 2022 (Sunday) at 10.30 AM
ONLINE: Through Google Meet HD Video Meeting App

Dr B Divakar
Rtd. Joint Secretary Board of Intermediate Education, Andhra Pradesh

Webinar– 102

TOPIC : "GSM ANTENNA AND ITS DEPLOYMENT STRATEGIES"
DATE: 7th August, 2022 (Sunday) at 10.30 AM
ONLINE: Through Google Meet HD Video Meeting App

Dr. K.R. Sudhindra
Associate Professor in Department of ECE
BMS College of Engineering, Bangalore

WEBINARS

Webinar– 103

TOPIC : "THE IMPACT OF 5G TECHNOLOGY ON HUMAN LIFE IN THE 21ST CENTURY"
DATE: 14th August, 2022 (Sunday) at 10.30 AM
ONLINE: Through Google Meet HD Video Meeting App

Sri B Brahma Reddy
FIE, FIETE
IEI Council Member & Chairman, IEI, Telangana State

Webinar– 104

TOPIC : "Overview of Microstrip Antennas and Scattering Parameters"
DATE: 21st August, 2022 (Sunday) at 10.30 AM
ONLINE: Through Google Meet HD Video Meeting App

Dr. K. Prahlada Rao
Associate Professor
Stanley College of Engineering and Technology for Women

Webinar– 105

TOPIC : "Effect of Noise on People and Ecosystem"

DATE: 28th August, 2022 (Sunday) at 10.30 AM
ONLINE: Through Google Meet HD Video Meeting App

Dr.K.Padmavathi
Associate Professor
Stanley College of Engineering and Technology for Women
BMS College of Engineering, Bangalore

Webinar– 106

TOPIC : "IoT Enabled Smart Sensors and its Applications"

DATE: 4th September, 2022 (Sunday) at 10.30 AM
ONLINE: Through Google Meet HD Video Meeting App

Dr.T.P.Latchoumi
Assistant Professor
Department of Computer Science and Engineering,
SRM Institute of Science and Technology, Chennai.
BMS College of Engineering,

Webinar– 107

TOPIC : "Data science and its applications"
DATE: 11th September, 2022 (Sunday) at 10.30 AM
ONLINE: Through Google Meet HD Video Meeting App

Dr. K. Vaidehi
Professor & Head
Department of AI & DS
Computer Engineering, Stanley College of Engineering and Technology for Women, Hyderabad, Telangana, India.

Teacher's Day & Engineer's Day Celebrations:

The IETE Hyderabad Centre Celebrated Teachers Day and Engineers Day together on 18.09.2020 (Sunday) at 10.00 AM. Felicitation to Speaker Prof. ML Sai Kumar, Retired Professor and Motivational Speaker as part of Teacher's Day he delivered Lecture on "Challenges of Higher Education in the 21st century with the latest technology" Felicitation to Speaker Dr. M. Lakshminarayana, Scientist-H (Retd.) & Director R&D UTS as part of Engineer's Day he delivered Lecture on " Technologies for Humanity in the Context of Engineers & Society" all EC Members, GC - Members, Coopted Members, Special Invitees, Distinguished Members, Scientists, Professors, Faculty and Students have attended and made the event successfully.

Flag Hoisting Ceremony:

The Flag Hoisting Ceremony in connection with Independence Day on 15th August, 2022 was organized at IETE Hyderabad Centre. Er. Nuli Namassivaya Chairman hoisted the flag. Executive Committee Members, GC Members, Co-opted Members, Staff and Students participated in the Programme. On this occasion Haritha Harma event has conducted at IETE Premises.

ISF Coordinators Meeting:

The Institution of Electronics and Telecommunication Engineers (IETE) Hyderabad Centre conducted IETE Students Forum (ISF) Coordinators Meeting on 14.09.2022 at 05.30 P.M. through physical mode at IETE Hyderabad Centre. Total 30 Faculty Coordinators along with Office Bearers attended from various engineering Colleges to this event. The Office Bearers briefed about AIC – 2022 Pre-Conference tutorials.

ISF EVENTS

MATRUSRI ENGINEERING COLLEGE
SAIDABAD, HYDERABAD – 500 059
(Approved by AICTE & Affiliated to OSMANIA UNIVERSITY)
DEPARTMENT OF ELECTRONICS &COMMUNICATION ENGINEERING
One day Pre-Conference tutorial
"FPGA BASED ARCHITECTURES FOR IOT SENSORS AND IOT BASED SENSOR APPLICATIONS"

The IETE New Delhi organized annual IETE Convention 2022 in collaboration with IETE Hyderabad 23rd to 26th September. In this regard all ISF's under IETE Hyderabad were requested to organize Pre-conference tutorial in the theme of FPGA based architectures for IoT sensors and IoT based sensor
applications"

The Department of Electronics and Communication Engineering has organized Pre-Conference tutorial on IoT sensors and FPGA Architectures. The major objective of organizing this tutorial was to provide the platform for the faculty to have an awareness on FPGA architectures for IoT. Inaugural session started at 10:30 AM followed by principal Dr.Hanumanth Rao Garu's addressing. Later HOD-ECE Dr. Srinivas Rao gave a brief note on future agenda of departmental activities and on IETE activities. Session started with the introduction of IoT and its applications by resource person Mr.Om Srivatsav. Later Key note speaker Dr.N.S.Murthy Garu gave a seminar on FPGA Architecture for IoT

ISF EVENTS

STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN

Hyderabad

**One-Day Pre-Conference Tutorial On
the Occasion of 65th Annual IETE Convention (AIC)**
"INNOVATION AND FUTURISTIC SOLUTIONS IN THE FIELD OF AI & ML"

The ISF at Stanley College of Engineering and Technology for Women, Hyderabad in association with IETE Hyderabad Centre has conducted One-Day Pre-Conference Tutorial on 23rd September 2022 Titled: "Innovations and Futuristic Solutions in the field of AI & ML" on the Occasion of Celebrating 65th Annual IETE Convention (AIC) on the Theme - FRONTIER INFORMATION & COMMUNICATION TECHNOLOGIES". The Workshop was opened up with welcome speech by Mrs. T.Prasanna, Assistant Professor ECE. An initial introduction to the workshop was given by the coordinator Mrs. C.V. Keerthi Latha, Asst Prof ECE. Participation in this conference is open to students of UG/PG in Engineering, Research Scholars and Faculty Members. The conference objective is to explore how students can integrate Design Thinking in the field of AI/ML to impart the principles in the curriculum of technical education and eventually pass on the learning to students and make them to meet the industry requirements. The session -1 was handled by the Speaker Y.V.S.S. Pragati, HOD-CSE on introduction to Artificial Intelligence. The second session speaker Dr. B. Srinivasu HOD IT enlightened with the Application of AI and ML. Afternoon session was given by Dr. Satya Prasad Lanka with the concepts of AI/ML with hands on applications of AI / ML. The evaluation of the participants indicated that the workshop was successful. To a large extent, the objectives of the program and expectations of the participants were met. Most of the participants were of the view that the program was very informative and gave them an exposure to the concepts of futuristic solution of AI/ML

ISF EVENTS

65th Annual IETE Convention (AIE) Pre-Conference Tutorial at

Ellenki College of Engineering and Technology

SMART CITY USING SMART SENSORS

As the part of 65th Annual IETE Convention (AIE) Pre-Conference Tutorial, we have conducted one day Pre-Conference Tutorial on the theme of "SMART CITY USING SMART SENSORS" on 22-09-2022 in our college seminar hall from 9:30 am to 4:30 pm.

In this event we invited Dr.Narsingh Yadav Professor , as a Resource Person to deliver the theme, and we also invited, Patrons Shri.M.Sambasiva Reddy Director and Dr P. John Paul, Professor & Principal were contribute the inaugural event. Faculty members and Students of various departments were participating in this event Vehicle smart parking using GSM and automatic street lights controlling when the vehicle moves in night on the roads using sensors in city. it's architecture and power saving methods were explained in brief with PPT slide show by Dr P. John Paul.

Different kinds of sensors and actuators and it's circuits, working and applications in smart city has been presented by Dr. Narsingh Yadav. The students were involved in real time discussion and were enlisted with intricate concept of sensor network.

"Technical Quiz, Technical Look & Lock" events also conducted for the students. The dignitaries distributed certificates to the winners. In this event around 200 students and 50 faculty members participated and got benefited by this IETE Pre-Conference Tutorial.

ISF EVENTS

MATURI VENKATA SUBBA RAO (MVSR) ENGINEERINGCOLLEGE
NADERGUL, HYDERABAD-501510

Department of Electronics & Communication Engineering

One Day Pre-Conference Tutorials

on

"Real World Applications of AI & ML"

in Collaboration with IETE, Hyderabad

on the occasion of 65th Annual IETE Convention (AIC)

A One Day Pre-Conference Tutorials was organized on, "Real World Applications of AI & ML" for ECE Students. The resource Persons are Dr. K. Venu Gopal Rao, Dean (Academics) & Head, ITD., Dr. A. V. Krishna Prasad, Assoc. Prof, ITD and Dr. Rajesh Kulkarni, Assoc. Prof, CSED., This Pre-conference is scheduled as a part of Collaboration with IETE, Hyderabad on the occasion of 65th Annual IETE Convention (AIC).

The program was scheduled in three sessions and the topics covered were :

1) Artificial Intelligence and it's Applications

2) Machine Learning & it's Applications

3) Applications of AI & ML with case study

Session 1 had discussed the concepts of Artificial Intelligence and its applications in today's world. Session 2 covered the overall view of Machine learning and it's applications and session 3 introduced a case study using AI & ML. The number of students attended the program were 180 and students had gained the knowledge in the area of applications of AI & ML in different fields of engineering.

ISF EVENTS

**One day Pre- Convention Tutorials
organized by**

PALLAVI ENGINEERING COLLEGE
**"ARTIFICIAL INTELLIGENCE COMPETENCIES FOR DATA SCIENCE"
on the occasion of celebrating 65 th ANNUAL IETE CONVENTION (AIC)**
FRONTIER INFORMATION & COMMUNICATION TECHNOLOGIES FOR ATMANIRBHAR BHARAT

Pallavi Engineering College has a sprawling campus and has the unique advantage of being located in the heart of the city. The vision is to emerge as a global leader in imparting quality technical education emphasizing ethical values for the betterment of the society. IETE ISF organized a one day Pre- Convention Tutorials on "Artificial Intelligence Competencies for Data Science" on 23 rd September 2022 from 10:00 AM to 4:30 PM in
Auditorium. The guest lecture gathers eminent speakers: Mr Sai Satish, Young Entrepreneur, and Founder & CEO of Indian Servers. The lecture was attended by 210 students and 8 Faculty IETE members of both Electronics and Communication Engineering and Electrical and Electronics Engineering Departments.
The guest speaker was heartily welcomed by beloved Principal Dr M B Raju, Dr T Sravanti, HoD, ECE Department, ISF Coordinator, Mr MD Mujeebullah, event coordinator and IETE student members. Mr Sai Satish is a renewed Ethical Hacker & Cyber Security Expert.TedX speaker, Thousands of college students and professionals got benefited by his lectures which are delivered at IITs, Central Universities,IIMs, 350+ Engineering colleges all over India. He was rewarded by IAS officers for pentesting on govt sites, which helped to them to improve security and safe transactions, Forensic Investigator.
The session was very interactive and students participated enthusiastically. In the beginning Mr Sai Satish gave the introduction on Artificial intelligence (AI) which is a broad term that can be construed to mean a focus in computer programming and development designed to train machines to perform tasks as well as, or better than, humans. Later he explained the Machine learning related application of artificial intelligence, in which a computer is provided programming and large amounts of data to learn its own patterns, rather than the patterns and limits set by a human programmer, and thereby improve from experience. He covered the application of AI to medical tasks that has exploded in recent years owing to advances in computing power, hardware capabilities, and software advances.
In the afternoon session he explored the Businesses and other Institutions which are able to store most of their data in Microsoft Excel Sheets and also about the modest Business Intelligence tools capable of analyzing and processing this data. He also covered how the presence of a lesser amount of data made the handling and managing of data easier but, with the passage of time, the amount of data produced every day kept increasing.
The vote of thanks was given by a Assistant Professor of ECE Dept. Mr MD Mujeebullah and Principal Dr M B Raju & Dr T Sravanti, HoD, ECE Department presented a small token of appreciation to our valuable guests. As per the feedback received from the participants it was very good learning experience, the lecture helped them in