



**IEEE**  
HYDERABAD SECTION

**SYNAPSE**  
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Issue I

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**IEEE Hyderabad Section Mission and Vision**

**Vision**

**To be an essential resource for the professional development in specific fields of interest of IEEE for the benefit of mankind.**

**Mission**

**To provide a platform for knowledge sharing, networking, and career development to the local technical community.**

*Chairman's Message*



Hope you, your family and friends are safe given the global scare. We are passing through quite a challenging time for society and the crisis has left no one untouched. Coronavirus – COVID 19 is a common threat and declared PANDEMIC by World health organization. It is a call to action, responsibility and time to spread precautions and stop the fear going viral. The current situation affects everyone and it demands all of us to play our part to contain this deadliest stigma to humanity. There have been losses of life caused by the deadliest virus we mourn the bereaved families and wish speedy recovery to the individuals and their families who are still suffering. As a responsible organization that puts people and its members first, all our meetings and events have been converted to virtual mode until the condition settles or normalizes.

People expect to be bored by eLearning — Volunteers @ IEEE Hyderabad Section show them it doesn't have to be like that!

We are organizing many cutting age web based events related to Next generation Education, Young professionals career and higher education, entrepreneurship, Communication technologies, Skill connect, Circuits and Systems, computational intelligence, technology management, power, industry applications, Technology management, Geosciences and Remote sensing, Microwave techniques, Power engineering, Photonics, Students, Young Professionals, Women in engineering, COVID Move and more which is getting great response of members and non-members. Most of the programs are quite interactive and full of discussions. If you want to be part of our programs or want to attend them please keep visiting our website for getting up to date with happenings. Recently we concluded AG Graham Bell memorial lecture with a tremendous turnout of 600+ attendees. Apart from this we conducted two successful section executive monthly meetings in virtual mode.

Though need of hour, current lockdown has brought a serious challenge. Currently Police, Doctors and Healthcare professionals are first line of defence against the COVID 19 Pandemic. Our initiative IEEEINDIA COVIDMOVE ([www.ieeecovidmove.in](http://www.ieeecovidmove.in)) is proactive in bringing awareness and techno innovation events for all our members in India and community as a whole. Our volunteer team organized 2 very successful Hackathons with a grand participation of 2000+ attendees and 100+ teams presenting their engineering solutions against the pandemic. Some of the very interesting and selected prototypes are in progressive India council and several Indian IEEE Sections collaborated with this initiative.

2020 IEEE HYDCON paper reviews are complete and results have been communicated to authors, tremendous job done by Reviewers, Technical Program committee. IEEE Region 10 Industry relations committee has confirmed to organize Industry forum on the side-lines of Hydcon. I am very happy to note that our proposal for formation of Vizag Bay Section is approved and related transition has been completed by IEEE MGA. We congratulate enthusiastic team of newly formed section of Vizag bay and wish the new section a great success ahead.

Please take a very good care of yourself, your families and friends, stay home and keep following Government regulations. Let's make the world more resilient together.

I'll always be glad to hear from you at [chairman@ieeehyd.org](mailto:chairman@ieeehyd.org).

Best regards,  
Amit Kumar

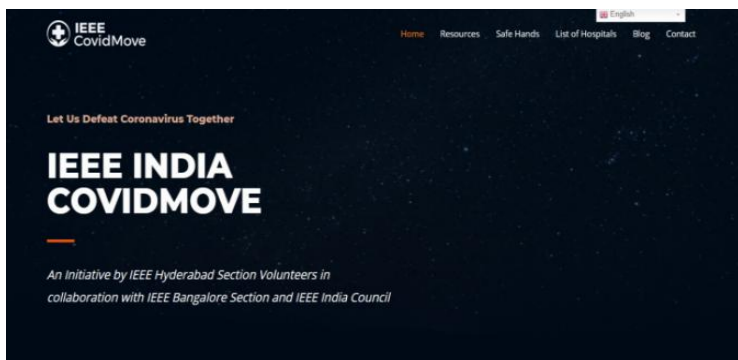
# Achievements

1. Five REM scholars from Hyderabad Section: Chakravathy Srinivas (VNR VJIET), Divya Nalla (GPREC), Sai Teja (GEC), Madhuri Patnam (JITS), and Ramya Sri (MVSREC).
2. Dr. VVSSS Chakravarthy, Raghu Institute of Technology has been elevated to Senior member grade.
3. Dr. P.Satish Rama Chowdary, Raghu Institute of Technology has been elevated to Senior member grade.
4. Dr. Rajinikanth Aluvala, Vardhaman College of Engineering has been elevated to Senior member grade.

## IEEE Hyderabad Section Activities

### IEEE India CovidMove

IEEE volunteers at Hyderabad in collaboration with IEEE India Council Humanitarian Activity committee are fighting against this vulnerable virus by launching an initiative called IEEE COVID MOVE ([www.ieeecovidmove.in](http://www.ieeecovidmove.in)) – A dedicated whereabouts of deadly COVID in India, what to do, where to go, what to rely on and how not to panic! The website and its social campaign have reached more than 10000 people making an impact to 100s of people every day by spreading COVID related useful resources in India, information on the do's and don'ts, curbing fake information, and saving lives. Team of dedicated volunteers turned soldiers are working day and night to keep this mission on until we all fight and win this battle together.



View of Website Home Page

### IEEE India CovidMove Hackathon

With the rapid outbreak of COVID-19 throughout the world, IEEE India Council took up an initiative to organize the "IEEE India COVID Move - Online Hakathon Challenge" in collaboration with IEEE Hyderabad section and IEEE Banglore section by providing a platform for the young minds to ameliorate their technical dexterity. The Four - day Hakathon challenge focused on the advancement of

innovative solutions of unmet needs and Problems due to the sudden outbreak of COVID-19 Pandemic. Students all over India could participate and work as a team towards a common goal of building a successful project in order to overcome the current situation by working upon the solutions to different problems.



Poster of IEEE India CovidMove Hackathon

The event was preceded by a webinar by Dr D. R Srinivas, Bengaluru based senior consultant Doctor and Dr G. K Goswami a Delhi based IPS officer. The winning teams of the Hackathon are as follows: First Prize Covid 11Mhz and Innovate Plus, Second Prize SSN COVID and Be Aware, Third Prize: Hand gloves preparation and Med Warriors.

### IEEE India CovidMove Hackathon-2

IEEE India Council has taken up an initiative to organize the "IEEE India Covid Move - Online Hackathon Challenge: Edition - 2" in collaboration with IEEE Hyderabad Section, IEEE Pune Section, IEEE Uttar Pradesh Section and IEEE Bangalore Section by providing a platform for the young-minds to uplift their technical proficiency. The Three - day Hackathon Challenge focused on ideating effective

solutions for the problems caused due to the sudden outbreak of Covid-19 pandemic. Unlike the first edition, this Hackathon focused at challenging students with various problems which need solutions around the globe. Students all over India could participate and work as a team towards a common goal of building a successful project in order to overcome the current situation by working upon the solutions to different problems.



Poster of IEEE India CovidMove Hackathon 2

They were open to the mentors to seek aid for their effective performance. The Hackathon resulted in students coming out with various productive solutions with new innovations and technologies. The event was preceded by a webinar by Mr. Mahesh Muralidhar Bhagwat – IPS, Commissioner of Police | Rachakonda, Hyderabad and Dr. Ajit Kumar Saxena – Professor and Head Department of Pathology/Lab Medicine | AIIMS, Patna. The winning teams of the Hackathon are as follows: First Prize; MedTex, Second Prize; Innovizens, Third Prize;Eva, Fourth Prize: Dark Knights.

## IEEE Computer Society Activities

### CS IDEATE Hakeethon

A vibrant platform created by the CS IDEATE Hakeethon team by IEEE Computer Society Hyderabad Section in collaboration with Vardhaman College of Engineering. It was a 24 hours Competition held on 28<sup>th</sup> March 2020. The Hakeethon was started at 28<sup>th</sup> March 2020 12:00 AM and ended by 23:59. Over 100+ participants were participated in the Hakeethon. It was operated on Hacker Rank platform where more than 50 problem statements comprising various levels of difficulties were given as a challenge.

### Analysis of COVID-19 health care problems using AI

As we are aware of COVID-19 it is most pandemic disease. To Eradicate and give the Awareness on COVID the IEEE Computer Society Ideate team Hyderabad Section had organized the webinar on the topic “Analysis of COVID-19 health care problems

using AI” on 4<sup>th</sup> April 2020. Senthil Kumar delivered a session on handling health care w.r.t. Descriptive Analysis, Diagnostic or Prescriptive Analysis, Predictive Analysis and ML, AI and Cognitive Analysis. Akash Gujju explained the techniques of data processing, visualization by Machine Learning. Sai charan perur and Dharan kumar subsisted on the Risk Classification and Churn Analysis. Dharan Kumar categorized on how to acquire the data by Mra samples and performing the grid examination risk classification. Finally, Mr Vidhyasagar conveyed the vote of thanks.

## IEEE Education Society Activities

### One day workshop on “The Power Questioning and Higher order thinking”

One day workshop on “The Power Questioning and Higher order Thinking”, organized by Academic Staff College KLEF Guntur in association with IEEE Education Society, Hyderabad Section, IEEE Guntur Sub Section on 18<sup>th</sup> Feb 2020 by Dr. Uma Valluri, Ex-Professor, IIIT Sricity, Chittor, Andhra Pradesh India. The program was inaugurated by the chief guest Dr. Uma Valluri Resource person from IIIT Sricity, Dr. Siva Nagaiah, Vice Principal, ASC, KLEF Guntur, Dr. S V N L Lalitha, Professor, EEE and Chair IEEE Guntur Sub Section and Saikumar Tara, Secretary/ Treasurer, IEEE Education Society, IEEE Hyderabad Section. Total 68 members were participated among them ten are IEEE Members and 58 are Non IEEE members.



Felicitation of Speaker

### One day workshop on “LaTeX”

School of Computer & Information Sciences in collaboration with the IEEE Education Society Chapter Hyderabad Section organized a one day workshop on LaTeX on 29th February 2020. 50 delegates including faculty members and research scholars from various institutions participated in the event.

Prof. Chakravarthy Bhagvati, Dean, School of Computer and Information Sciences and Dr. Y Vijayalata Chairman, IEEE Educational Society

chapter, Hyderabad section inaugurated the workshop. The resource persons of the workshop include Prof. Vineet CP Nair, Dr. T Sobha Rani, Prof. S Durga Bhavani, and Prof. Chakravarthy Bhagvati, who demonstrated the various features of Latex and its applications.

Tara Saikumar, the Secretary/Treasurer, highlighted the activities of the Educational society. The event coordinator Prof. Salman Abdul Moiz thanked the resource persons, participants, and the Education society for making the workshop a grand success.



Group photo with Participants

### **Technical Paper Writing**

IEEE Education Society Chapter, Hyderabad Section organized a webinar on “Technical Paper Writing” dated on 29th March 2020. The talk was delivered by Prof. Dr. Salman Abdul Moiz, Professor, SCIS, University of Hyderabad. The speaker discussed various strategies and innovative practices for Technical paper writing innovation technology and modeled in the teaching learning process. Totally 175 active participants had joined the talk among them 100 were IEEE members and remaining were guests.

### **Consent and Data- Cyber Security Perspective**

IEEE Education Society Chapter, Hyderabad Section and Computer Society of India jointly organized a webinar on “Consent and Data- Cyber Security Perspective” dated on 05th April 2020. The talk was delivered by Sri. Anil Rachamalla, Founder of End Now Foundation. The speaker discussed various strategies and Security, Privacy data and Consent of younger generation and safety measurement also through the talk. Around 201 active participants attended and out of which 85 were IEEE members.

### **IEEE Xplore- Delivering Research Better Than Ever**

IEEE Education Society Chapter, Hyderabad Section organized a webinar on “IEEE Xplore- Delivering Research Better Than Ever” on 05th April 2020. The talk was delivered by Dr. Dhanukumar Pattanashetti, Client Services Manager, IEEE India Office. The

speaker discussed various resources and strategies for better research ever through IEEE Explore. Dhanukumar was shown various opportunities through IEEE Explore to carry out the research. Around 100 participants attended the event and out of which 85 were IEEE members.

### **Digital Pedagogy for Synchronous and Asynchronous Learning in Higher Education**

IEEE Education Society Chapter, Hyderabad Section organized a webinar on “Digital Pedagogy for Synchronous and Asynchronous Learning in Higher Education” on 06th April 2020. The talk was delivered by Prof. D.V.S.S Siva Sarma, Professor and Dean Faculty Welfare, National Institute of Technology Warangal. The speaker discussed various teaching learning process and innovative strategies and practices. He demonstrated the use of Edmodo software. Around 120 participants attended the event and out of which 90 were IEEE members.

### **IEEE Xplore Digital Library – Boosting Every Aspect of Your career**

IEEE Education Society Chapter, Hyderabad Section organized a webinar on “IEEE Xplore Digital Library – Boosting Every Aspect of Your career Exclusive for students on 08th April 2020. The talk was delivered by Dr.Dhanukumar Pattanashetti, Client Services Manager, IEEE India Office, the speaker discussed various resources and strategies for boosting engineers career aspect through IEEE Explore Digital Library. Dhanukumar had shown various opportunities through IEEE Explore to carry out the better career aspects. Around 150 participants attended the event and out of which 100 were IEEE members.

### **Recent Challenges in Electrical Engineering**

IEEE Education Society Chapter, Hyderabad Section organized a webinar on Recent Challenges in Electrical Engineering dated on 11th April 2020. The talk was delivered by Sri. B Koti Reddy, Scientific Officer, Department of Atomic Energy. The speaker discussed various recent challenges and research opportunities of Electrical Engineering. Around 122 participants attended the event and out of which 62 were IEEE members.

### **Covid: The realities before us**

IEEE Education Society Chapter, Hyderabad Section and Computer Society of India jointly organized a webinar on “Covid: The realities before us” on 12th April 2020. The talk was delivered by Dr.Ramanan, MD, Senior Oncologist, Apollo Hospitals, Chennai. The speaker discussed various realities and challenges during the Covid -19 period and also suggested few important aspects to keep us safe from Covid-19.

Around 133 participants attended the event and out of which 58 were IEEE members.

### **Research Proposal Writing**

IEEE Education Society Chapter, Hyderabad Section organized a webinar on “Research Proposal Writing” dated on 14<sup>th</sup> April 2020. The talk was delivered by Dr M. Naresh Kumar, NSRC and past chair of IEEE CIS/GRSS Jt Chapter. The speaker discussed various research funding agencies and innovative insight for research proposal, essential aspect in writing a research proposal. Around 228 participants attended the event and out of which 50 were IEEE members.

### **Teaching with Matlab in Modern Classroom**

IEEE Education Society Chapter, Hyderabad Section organized a webinar on “Teaching with Matlab in Modern Classroom” on 16<sup>th</sup> April 2020. The talk was delivered by Sri. Ramana Anchuri, Education Technical Evangelist, Mathworks. The speaker discussed various Teaching learning process and innovative strategies and best practices through Matlab Software. He demonstrated few insights for modern classroom activities . Around 155 participants attended the event and out of which 55 were IEEE members.

### **Digital Parenting**

IEEE Education Society Chapter, Hyderabad Section organized a webinar on “Digital Parenting” dated on 18<sup>th</sup> April 2020, through CISCO WebEx. The talk was delivered by Sri. Anil Rachamalla, Founder of End Now Foundation, and A Non-Profit Organization. The speaker discussed various aspects such a types of parenting, risks children face online, tips for students and parents, screen time agreement. Totally 104 active participants have joined the talk through WebEx among them 50 are IEEE members and remaining are guests for the talk.

### **Online Teaching Tools**

IEEE Education Society Chapter, Hyderabad Section organized a webinar on “Online Teaching Tools” dated on 20<sup>th</sup> April 2020, through CISCO WebEx. The talks were delivered by Dr.Y.Vijayalata Chair, IEEE EdSoc, Dr.Salman Abdul Moiz, Professor, SCIS,UoH, Dr.T.Sudheer Kumar, SVCEW, Dr. M N V Ramesh, Principal, NMREC, Dr.B.K.Madhavi, Head, CSE, NMREC, Dr.V.Mohan, NMREC and Saikumar Tara, Secretary/Treasurer, IEEE Edsoc and Associate Professor ,I/C Head, ECE, CMRTC. The speakers

discussed various tools such as WebEx, Go to meeting, Zoom, Canvas, Mentimeter, Edmodo, Google classroom. Totally 180 active participants have joined the talk through WebEx among them 80 are IEEE members and remaining are guests for the talk.

### **Content Delivery Using Moodle and Canvas**

IEEE Education Society Chapter, Hyderabad Section organized a webinar on “Content Delivery Using Moodle and Canvas” on 27<sup>th</sup> April 2020. The session were delivered by Dr.Salman Abdul Moiz, Professor, SCIS, UoH and Dr. M N V Ramesh, Principal, NMREC. The speakers discussed benefits of educational tools and encouraged the participants to use Moodles and Canvas. Dr Salman explained about Moodles and Dr Ramesh enlightened the usage of Canvas to conduct e class and online assessment too. Around 150 participants attended the event and out of which 80 were IEEE members.

### **Development of Low –Cost assistive Technology solutions to aid Differently abled People**

IEEE Education Society Chapter, Hyderabad Section organized a webinar on “Development of Low –Cost assistive Technology solutions to aid Differently abled People” dated on 30<sup>th</sup> April 2020, through CISCO WebEx. The talk was delivered by Dr. K Padma Vasavi, Professor and Dean of assistive Technology Centre of Excellence at SVECW, The speakers discussed various innovative idea and creation of assistive technology for visual, hearing and physically challenged peoples. Totally 150 active participants have joined the talk through WebEx among them 80 are IEEE members and remaining are guests for the talk.

## **IEEE CAS/EDS Joint Chapter Activities**

### **Volunteering Opportunities in IEEE**

IEEE Circuits and Systems Society Student Chapter of Vaagdevi College of Engineering in collaboration with IEEE Circuits and Systems Society Chapter, Hyderabad Section had organized a webinar on “Volunteering Opportunities in IEEE” on 11<sup>th</sup> April 2020. The webinar was organized under the guidance of CAS Chair Dr Chandrasekhar and Mr M.A.H. Shamshi, Advisor of IEEE VCE CASS SBC.

Speaker of the session was Mr. Harish Mysore, senior director of IEEE and manager of IEEE India Operations. The session started with a brief information regarding IEEE Societies, Councils and IEEE initiatives. Mr. Harish Mysore also explained the process of IEEE volunteering, various

volunteering opportunities and also explained about the rewards. He also enlightened the attendees on how to become a fruitful volunteer. Dr. Amit Kumar, section chair, IEEE Hyderabad section appreciated the session and thanked the speaker to share the different characteristic of IEEE. Dr. Dhankumar and Dr. Y. Vijayalatha attended the event as panelist. Event was very interactive and highly appreciated by all participants. Finally, Mr. Mahesh Neerati conveyed the vote of thanks.

## MTT/AP/EMC Joint Chapter Activities

### Three days workshop on Electromagnetic and Microwave Engineering pedagogy, Research trends and Applications

IEEE Birla Institute of Technology and Sciences (BITS) Pilani, Hyderabad Campus had organized the Three days workshop on Electromagnetic and Microwave Engineering pedagogy, Research trends and Applications held on 2-4 January 2020.

Total 15 technical talks and two poster presentations were planned like Electromagnetic Pedagogy, Insights into Maxwell's Equation, Teaching and Learning Electromagnetics, Don't kill your Research by Indifferent Writing HPM applications for Directed Energy Weapon, Structurally Integrated Antennas for Airborne Application of EM waves in plasma. At the end, a Panel discussion was organized on Collaborative opportunities for Academia followed by vote of thanks.



Group Photo with Participants

## IEEE TEMS Chapter Activities

### Innovation and Design thinking workshop

On theme of Startups and Entrepreneurs, 1-day workshop was organized by Innovation IEEE MJCET Student Branch in collaboration with IEEE Technology & Engineering Management on "Innovation and Design Thinking" on 1st February 2020 at MJCET Seminar Hall.

Speaker of the workshop was Mr. Achutha Rao. He was former center head of National Institute of Design at Bangalore and the research chair holder of O P Jindal design at NID R&D Campus. The event was very interactive and real time practice exercises were also planned. It was well appreciated by all attendees and requested to arrange more such sessions to motivate the startups. At the end, Dr Mohammad Arifuddin sohel, Prof & Head ECE, MJCET proposed the vote of thanks. Around 30 participants were benefitted from this workshop.



Group Photo with Participants

### Equipment in Power Plants- Concepts, Operation & Design Aspects

A technical talk was organized by IEEE PES/IAS/PELS Jt. Chapter, Hyderabad section in collaboration with GRIET, Hyderabad on "Electrical Safety challenges in Distribution Systems" on 8<sup>th</sup> Feb 2020. The speaker of the event is Sri Sree kumar Nhalur, Prayas group, Pune. The objective was to understand the cause of accidents and promote measures to reduce them. The first step was to understand why and where the accidents occur, and who could be the victims. Based on this, some ideas on how to prevent accidents were being developed. The Program included a video on safety awareness, brief details about reports submitted to distribution companies, suggestions to regulatory bodies, training programs and field implementation of safe starter for agriculture pumpsets. In this Program details were presented on how this IEEE-Group collaborated with world-wide to learn from their experiences. Around 120 members have participated in the session.



Sree K. Nhalur delivering the session

## IEEE PES/IAS/PELS Joint chapter Activities

### Electrical Safety Challenges in Distribution Systems

A technical talk was organized by IEEE PES/IAS/PELS Jt. Chapter, Hyderabad section in collaboration with Anurag Group of Institutions, Hyderabad on “Electrical Equipment in Power Plants - Concepts, Operation & Design Aspects” on 5<sup>th</sup> Mar 2020. The speaker of the session of this event is Sri M. Vijaya Kumar, Retired General Manager BHEL, Hyderabad. In producing the electricity power plants place a major role. We have to protect this things safety and carefully by the maintaining in proper way. The attended delegates were learned about the Concepts, operations and Design Aspects of different Electrical Equipment in Power plants. Around 130 Participants have attended the session.



Felicitations of Speaker

### Transforming through Industry 4.0 – India Opportunity

A webinar was organized by IEEE PES/IAS/PELS Jt. Chapter, Hyderabad section on “Transforming through Industry 4.0 India Opportunity” on 27<sup>th</sup> Feb 2020.

The speaker of the event is Sri Venkata Ramana Vemuri. He is the founder director of 14-VG at Hyderabad. This talk had given Industry 4.0 -- perfect solutions to manufacturers to become cost effective. Also given brief information on upcoming global Economic situation at Post COVID-19. Over 100 participants had joined the session.



Poster of the Webinar

## IEEE WIE AG Activities

### Women in Entrepreneurship & Career Opportunities

IEEE WIE AG organized expert talk on “Women in Entrepreneurship and Career opportunities” on 21<sup>st</sup> January 2020 at G. Narayanamma Institute of Technological & Sciences. The objective of the event was to encourage the students and identify the solutions to particular problems. In this regard Dr Y. Padma Sai had spoken the significance of trending technologies. She also described how women can equalize the future and work in a decent attitude. To set a goal what are the opportunities are there in the society has briefly explained by Dr Sosin Kalyan. He illustrated on research, Entrepreneurship and startup resources. Dr Zohoorallah S MD has explained about how the government and ATAL hubs motivating or initiating the students and entrepreneurs in the start-ups and internships. Finally, G. SreeLakshmi motivated the participants with the benefits of IEEE-WIE AG



Group photo with participants

### Challenges for Professional Women: Work-Life Balance (Take Command, Be Empowered and Own Your Future)

IEEE WIE AG in collaboration with Department of Electrical Engineering, Osmania University organised two days workshop on ‘Challenges for Professional women: work-life balance (Take Command, Be Empowered and own your Future) between the 7<sup>th</sup> February 2020 and 8<sup>th</sup> February 2020.

On 1<sup>st</sup> day of the workshop started with an inaugural ceremony after that Mrs Madhumathi had talked about how to stabilize the professional life. Then the session was interpreted by Prof Sandhya Kode had apprised the women to balance between their professional and personal life. Finally, Dr Yaagiri had illustrated regarding the self-defence.

On the 2<sup>nd</sup> day of the workshop, commenced by Mrs Venkateswary by constitutional laws then it was engaged by Dr Helatha. Eventually, a panel conversation did by Mrs Sridevi srikanth, Mrs Prachi

and Mrs Deepti Chumakurthy on the topic of women perspective to balance her life. Finally the workshop ended with valedictory function. To solve any problem in the community, we need a particular technical solution to solve the problem on the theme of it IEEE WIE AG organized the women in Entrepreneurship and Career opportunities.



Inauguration Photo of Workshop

### Entrepreneurship Talk

IEEE VNR Student Branch in collaboration with IEEE Hyderabad Section WIE AG/YP/CS organized a talk on “Entrepreneurship and CASS, SPS Inaugural” on 17<sup>th</sup> Feb 2020. The talk was delivered by J Vamsi Krishna, Chair, YP AG, IEEE Hyderabad Section. He gave various insights about Entrepreneurship and also inspired the audience with his journey. After that, the chairman of IEEE VNR SB Mr.D S Chakravarthy spoke about benefits and volunteering resources of IEEE. Mr. Vamsi appreciated the winners of REM scholars and also inaugurated IEEE CASS and SPS student chapter at VNR VJIT SB. Finally, Dr Y Padma Sai Chair, WIE AG, IEEE Hyderabad Section proposed the vote of thanks.



Presenting the token of gratitude to speaker

### SPARKLE 2020 (Skill Development for Young Minds)

IEEE Hyderabad Section Women in Engineering AG in collaboration with IEEE VCE SB organized a two- day program for government high school children where in the students were taught skills to improve their computer literacy and communication. The students were briefed about the importance of

computer in day to day activities and learnt few essential thing like how to create a power point presentation, uses of Microsoft excel. All the students had hands-on experience and were very much satisfied with the program. The program also focused on creating awareness on Cyber Crime and Security for the young children. The volunteers explained the usage possibilities of personal data in an inappropriate manner. Over 80 participants were benefitted with the session.



Group Photo with Participants

### All Hyderabad Women in Engineering Student Congress (AHWIESC)

A 3-day technical event was organized by IEEE WIE AG, Hyderabad Section in collaboration with Geethanjali College of Engineering titled AHWIESC ( All Hyderabad Women In Engineering Student Congress) held from 5-7 March 2020 in CSE Seminar Hall. This was one of the first of its kind in the history of the IEEE Hyderabad Section. The objective was to spread the benefits of WIE membership and to eradicate the technological challenges that are being faced by women in the community. The keynote address was delivered by Susan Kathy Land, IEEE President-Elect.

On the first day, Mr MGPL Narayana and Mr Ali Mustafa had explained the about IEEE Collabtratec and its benefits. Mr Akella Raghavendra given a brief note on Google Map, Mr Lakshmi Narayana addressed the participants on Gender Sensitivity, inclusive and acquiescence issues. Dr. Varsha Mamidi conducted the two hands-on parallel workshops on Machine learning and IOT. The machine learning session was conducted by Ali Mustafa followed by the Ms. Jyothirmaye, Mr. Sandeep explained ML research approaches and IOT with real time examples.





The second day started with Mira vempati given a session on Leadership in industry. Mr. Santosh delivered a talk on self defense. Mr. Sourav discussed about quantum dot based circuit design. The third day had started off with the talk by Sravanthi Talluri. She gave a Lecture on The Math of Assertive Leadership. The next session was on Airborne systems design overview by Mrs. Nirmala Satish Kumar, Scientist F (Weapon Systems) ADA, Bangalore followed by an interactive session on Electrical Safety in Distribution Systems by Dr. P V Rajagopal, Chair, PES/IAS/PELS Joint Chapter, IEEE Hyderabad Section, India. The afternoon session began with the session by Mrs. Gouthami K, Electrical Design Engineer, Colloabero Technologies Pvt Ltd on Implementation of Industry 4.0 to plan smart factories. It was followed by a session with John Benedict (Young Professional) on Leadership in Life and IEEE. At the end, panel discussion on Women in Academia with 5 Eminent women leaders leading IEEE WIE AG Hyderabad Section and 5 active IEEE Volunteers. The panel discussion was followed by IEEE WIE AG SB Chapter Exhibition which provided a platform for Chapter to project their activities. The congress successfully ended with the valedictory with closing remarks was made by Dr. Y. Padma Sai, Chair WIE AG IEEE Hyderabad section, Dr. G.Srilakshmi immediate past chair, WIE AG IEEE Hyderabad Section, Dr. S. Udaya Kumar Principal, GCET.

- At Vardhaman college of Engineering on 10<sup>th</sup> March 2020 on the topic on “I’m Generation Equality: Realizing Women’s Right”. Dr K. Mallikharjuna Babu was the speaker of the event and motivated the attendees with his personal story. He also explained about his mother’s contributions in his life. Dr. S Sai Satyanarayana Reddy boosted the girls to be more focused towards their career. Healthy lifestyle was explained by Mrs Abhimanika. Around 70 female faculty and 76 girl students were attended the event from the different colleges.



Photograph of the invited guests on the dias

- At VNRVJIET on 12<sup>th</sup> March, 2020.  
Dr. Y. Padma Sai, Chair WIE AG IEEE Hyderabad section & HOD, ECE department started the event by welcoming the participants. Ms.Vishala Reddy Vuyyala graced the occasion as the chief guest and Mr. Vignan Joseph the co-founder and CEO of Life of Girl was invited as Guest of Honor. They energized the participants by sharing their experiences and motivated them to accomplish enormous positions in their life. A representative Ms. Monika, Voice for girls spoke about their organization followed by cultural activities.

- At CVR College of Engineering on 13<sup>th</sup> March 2020.

Two eminent speakers Er. T. Sirisha, Scientist G, RCI and Ms. Prasanna Reddy, Lawyer were invited to grace the occasion. They delivered sessions on research and funding opportunities for womens offered by state of Telangana and central government of India. Ms. Prasanna discussed on womens’ rights, social equality and opportunities in Law firms. Ms. Sujana Cherabuddi, Honorable Secretary, CVR College of engineering motivated the female faculty with her experiences. An essay writing competition was conducted on the topic of "SOCIAL MEDIA- Pros and Cons and its impact on society". Three winners were selected and they were awarded with prizes during this celebration. Around 100 female participants were benefitted from this event.

## International Women’s Day Celebrations

IEEE WIE AG celebrated the 2020 International women’s day at four different colleges:

- At GRIET on 7<sup>th</sup> March 2020

The women’s day program was began with video about gender equality and sexual harassment.

Prof Dr J Gyati Shilakari Asthana had explained about opportunities and challenges in women’s life. Dr J Praveen had appreciated the women faculty of the college. He congratulated them for their valuable contributions to the society. M. G. Sekharam recollected the history and thanked those people who fought against child marriages and dowry system. The event ended with an inspirational story by Smt. P. Rashmi Praveen about her success and failures. Finally, the vote of thanks conveyed by the WDC Convener of the program



Group Photo of Speakers and Organizers

## Guntur Subsection Activities

### Zonal Student Congress

“Zonal Student Congress - 2020”, a two-day event was organized during 3<sup>rd</sup> - 4<sup>th</sup> January 2020 with the main theme being “**Capabilities for Industry 4.0**”. The inaugural ceremony of the event commenced with the tradition of lighting the lamp by the dignitaries, Sri. D. Rama Krishna, Chair, Dr. N. Usha Rani, SAC, Guntur subsection, Dr. T. Pitchiah, (HOD of ECE, VFSTR), Mr. K. Satya Prasad, (Rector, VFSTR). The initial keynote was from Sri D. Rama Krishna, CEO of Efftronics Systems Pvt. Ltd, Vijayawada, who spoke about “Challenges and Opportunities in Industry 4.0” and shared facts about Industrial revolution in India and the world - Industry 4.0 and digital business transformation which is upon us.

Mr. N. Mallikarjun manager of Efftronics Systems Pvt. Ltd discussed about unlocking business values in the digital era. The next session taken by Mr. Surya Putchala, CEO and Founder of Zettamine Labs, discussed the basics of Artificial Intelligence (AI), History of AI, What is AI? Definition of AI and the working of an AI, as well as the topic on Smart system Powered by artificial intelligence techniques. The final speech was by Mr. Ramasamy, Vice President- R&D, Efftronics, who introduced the idea of ‘Smart signaling’ which is a part of the Indian Railways. He discussed the meaning of smart and moved to explaining MTBF (mean time between failures) and MTTR (mean time to repair).



Lamp lightening by the dignitaries

## Vizag-Bay Subsection Activities

### Sub-Section Student Congress

IEEE Vizag Bay Sub Section organized Student Congress with the theme Sustainable Employment with Industry 4.0 on the 25 January 2020. More than 150 students across Andhra Pradesh attended the event. The events like Project expo, Student Branch exhibits, technical talks and cultural events were part of the schedule of the congress. Prof.V.Krishna Mohan, Registrar, Andhra University and Dr. B.K. Sahu, Regional Manager, NRDC IPFC &TISC, Government of India delivered expert talk on the idea of entrepreneurship, patents and the current scope for invention and research. Ice breaking session has attracted many of the students with the goodies. Mr. Murali Manohar Rao Bulusu, Vice President, Strategic marketing, Sankhya Technologies discussed on theme Sustainable Employment and how to grow as an individual and Dr. G. SreeLakshmi showcased the benefits of IEEE membership.



Group photo with participants

## IEEE Student Branch Activities

1. IEEE CMRTC SB organized a technical talk on “Technical Paper Writing Skills in IEEE Standard” on 16<sup>th</sup> Oct 2019 on the occasion of WORLD FOOD DAY. Total 15 faculty member have participated in the same.
2. IEEE BVRIT SB organised poster presentation and 3D model making on ‘Success Stories and Space Concepts of ISRO’ on 1<sup>st</sup> October 2019. Total 62 participants attended the session.
3. Sree Vidyanikethan Engineering College, Tirupati launched IEEE Women In Engineering (WIE) Affinity Group on 13<sup>th</sup> September 2019.
4. The IEEE Blaji Institute of Technology and Science has conducted the Inaugural ceremony of WIE Affinity Group Hyderabad Section held on 26<sup>th</sup> February 2020.
5. The IEEE RIT student branch conducted a technical talk on the theme of modeling EM systems, optimization and solving using FEKO held on 11<sup>th</sup> March 2020. The main motto of this event is to gather all the student branches at the same platform to give the awareness on present and most trending technologies.
6. A wonderful remote sensing technical session was conducted by IEEE RIT Student Branch held on 13<sup>th</sup> March 2020. Mr. S.K.P Kushwaha and Ms Arunima Singh was given the awareness regarding social welfare projects that useful for the society like soil testing, Geographic information system, forestry and ecology etc.,
7. IEEE VNR VJIET SB had inaugurated the student chapters of Circuits and Systems Society and Signal Processing Society on 17<sup>th</sup> February 2020.
8. The online coding contest Hack was an initiative taken by IEEE VNR VJIET CS SB on 30<sup>th</sup> March, 2020. There were three winners of the said Online Coding Contest and were promised to receive cash prizes for their achievements.
9. The online quiz contest Exquizme was an initiative taken by VNR IEEE CASS SBC on 06<sup>th</sup> April, 2020. The quiz contest was a grand success with the overwhelming support of all the volunteers who joined hands benevolently to make this happen. The five winners are being given goodies from respective student branches
10. IEEE VNR VJIET SB has organized a Webinar on Insights into Learning During the COVID-19 Break on 18 April 2020. Around 40 participants have attended the session. The response the webinar got was overwhelming and the students departed with the hope of being more productive during these tough times.
11. IEEE Vaagdevi College of Engg CASS SB has organized a webinar on “Email Etiquette” on 4<sup>th</sup> April 2020, to impart the knowledge on the Professional Email communications. Around 45 attendees were engaged in the session and acknowledged a positive feedback as the event reached their expectations.

### Call for articles / Individual member achievements

It is decided in the Section meeting that individual member accomplishments like publishing of a paper in IEEE journal/conference, taking up of a new position/responsibility (IEEE or any office of Public Interest), elevation to IEEE membership status, IEEE awards/Notable mentions can be mentioned in the newsletter under the achievements column to be started from next issue of newsletter. Please send in your articles/achievements for publication in newsletter to [synapse@ieeehyd.org](mailto:synapse@ieeehyd.org)

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