



IETSC NEWSLETTER

Vol. IV

Number – 04

28, May 2021

Price Rs. 0.25 Ps.



From the Chairman's Desk

Dear Fellow fraternity,

Importance of Skills

Hard skills (or technical skills) are teachable abilities or skill sets that are easily measurable. Hard skills are related to jobs in science, engineering, tech, manufacturing, or finance. They are learned through on-the-job experience or structured learning. Hard skills are teachable and measurable abilities, such as writing, reading, math or ability to use computer programs. By contrast, **soft skills** are the traits that make you a good employee, such as etiquette, communication and listening, getting along with other people. Soft skills are abilities not unique to any job. They're things like work ethic, organization, communication, collaboration, and leadership.

But then again, every job requires a different skill set. For some, it will be optimizing neural networks, for others sketching wireframes. For most of us it might be something like using spreadsheets to track sales.

Examples of Skills

- **Soft Skills.** Interpersonal skills, Communication, Leadership.
- **Computer Skills.** MS Office, Google Drive, spreadsheets, email, PowerPoint, databases, social media, web, enterprise systems.
- **Math.** Basic math, arithmetic, statistics, algebra, trigonometry, geometry, calculus.
- **Research.** Source checking, intellectual property rights, networking, outreach, advanced Google search.
- **Programming Skills.** C#, SQL, Java, C++, HTML, JavaScript, XML, C, Perl, Python, PHP, Objective-C, AJAX, ASP.NET, Ruby (with SQL, Java, and Python being the top 3 tech skills).
- **Troubleshooting.** Assessment, system knowledge, analytical skills, testing, calm mindset, problem-solving, logic, critical thinking skills, collaboration, communication.
- **Project Management Skills.** Task management, prioritization, delegation, task separation, scheduling, risk management, Scrum.

An **apprenticeship** is a real job with training, so you can earn a wage while you learn and become fully trained in your chosen occupation by the end of the apprenticeship. Apprenticeships are open to people of all ages over the age of 16, enabling people to improve their skills and progress in their careers. **National Apprenticeship Promotion Scheme (NAPS)** is a new scheme of Government of India to provide financial support to establishments undertaking the apprenticeship training. It was launched on 19th August 2016.

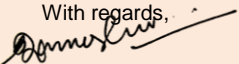
All India Council for Technical Education (AICTE) has entrusted the **Skill Development Cell** with the responsibility to train youth by providing them skills through AICTE-approved Colleges/Registered facilitators with objective for enhancing their Employment/ Self-Employment opportunities. The cell is running various schemes to meet its objectives.

Major schemes are Pradhan Mantri Kaushal Vikas Yojana for Technical Institutes (PMKVY-TI), Employability Enhancement Training Programme (EETP), National Employability Enhancement Mission (NEEM), AICTE-Startup Policy, Skill Assessment Matrix for Vocational Advancement of Youth (SAMVAY), Leadership Development Programs, etc. Pradhan Mantri Kaushal Vikas Yojana by Technical Institutions (PMKVY-TI) scheme is implementing through AICTE approved Colleges to impart Engineering skills to drop-out students and find placement in suitable private sector jobs. AICTE Start-up Policy is helping students of Technical Institutions to create tech-based student owned start-ups and employment opportunities.

In an endeavour to prepare a generation of skilled employees and leaders in alignment with the modern day market demands, **Skill India or the National Skills Development Mission of India** campaign was launched by Prime Minister Narendra Modi on 15 July 2015 to train over 40 crore people in India in different skills by 2022 under the aegis of National Skills Development Corporation of India. According to figures by Ministry of Skill Development, till January 19, 2021, around 1.07 crore candidates have been trained across the country.

Governments, employers' associations and trade unions around the world are working to improve the employability of workers, move young people into productive and decent work, and increase the productivity of enterprises through better quality and relevant training. **The Skills and Employability Branch of International Labour Organization (ILO)** conducts comparative research and provides policy guidelines and technical assistance to help constituents integrate skills development into national and sector development strategies.

The ILO's work with constituents focuses primarily on three areas: linking training to current labour market needs as well as anticipating and building competencies for the jobs of the future; building quality apprenticeship systems and incorporating core skills into training for young people; and expanding access to employment-related training in rural communities in order to improve livelihoods, reduce poverty, and equip women and men to work in the formal economy.

With regards,

(Dr G RAMESHWAR RAO, FIE)
 Chairman



From the Hon. Secretary's Desk

Dear Fellow Fraternity,

Scientists, engineers, technologists, researchers and a host of other intellectuals have made immeasurable contributions in enhancing ease of living, keeping pace with time with their inventions, executions and hard work. Some of the inventions have become most necessities in today's World.

Contd....page 2

Chairman
Dr G Rameshwar Rao, FIE

Hon. Secretary
Er T Anjaiah, FIE

Jt. Hon. Secretaries
Dr G Venkata Subbaiah, FIE
Prof. G Radhakrishna, FIE

Prof. (Dr) B Ramana Naik, FIE
Er M Aruna, FIE

Editorial Board:
Dr G Chandra Mohan Reddy, FIE Dr A Gangagni Rao, FIE
Dr P L Panda, FIE

VENUE FOR PROGRAMMES

“Visvesvaraya Bhavan” Khairatabad, Hyderabad - 500 004. Ph : 040-2331 4969
 E-mail : telanganasc@ieindia.org | ietelanganasc@gmail.com | Website : www.ieitsc.org.in



The Institution of Engineers (India)
 TELANGANA STATE CENTRE
 A Century of Service to the Nation



Imagine life without electricity, match box, refrigerators, sewing machines and a number of other accessories. Today one cannot imagine, even in rural areas, stepping out of one's house without their mobile phones.

Brilliant minds made these inventions possible.

However, there is also a touch of human side of the scientists which are eye openers.

Today, I would like to state only a few instances and myths projecting this human side.

1. When in the 19th Century MICHAEL FARADAY demonstrated before queen Victoria a table top model of an electric dynamo, Her Majesty asked what the use of that device was?

Faraday replied politely "your majesty, do you ask what is the use of a new born baby?"

Today, being engineer, you can understand to what level that little dynamo has gone with these types of sarcastic remarks. No doubt, an wonderful invention.

2. THOMAS ALVA EDISON came back from school with a letter with specific instruction from his teacher that the letter should ONLY be handed over to his mother. The young boy did exactly that and asked his mother as what was in the letter.

After reading the letter, tears rolled down from her eyes and told his son that the letter states as his son is very brilliant, and no teacher in his school can teach him matching his brilliance and hence the teacher advised his mother to immediately shift him to another school matching his brilliance.

However, the mother did not shift him but taught him in her house and also coached him. It continued for some time and the single mother fell sick and ultimately passed away.

Years passed, Edison did wonders and got name and fame.

One day he was searching for some papers and accidentally bumped a bundle of old files. With curiosity he opened and to his utter surprise found the same letter written by his school teacher years ago. Went through the letter with tears freely flowing down from his eyes. It was written – "Your son THOMAS ALVA EDISON is mentally retarded. Hence, we are expelling him from the school".

The letter made him very emotional, took out his diary and wrote – "THOMAS ALVA EDISON was a mentally retarded child but his mother made him genius."

Needless to say, Thomas Alva Edison became and still remains as one of the greatest inventors in science and technology even today. A rare genius indeed.

(Er T ANJIAH, FIE)
Hon. Secretary

National Technology Day Theme: "Information for Students"

May 11, 2021: IEI, Telangana State Centre in association with Hyderabad Clean Air network organized National Technology Day on "Information for Students" held on 11th May, 2021 at 17.00 hrs through ZOOM Cloud Meeting App. **Prof. (Dr.) G H S PRASAD**, FIE, Ex-Chairperson – FMS, National Institute of Fashion Technology, Ministry of Textiles, Govt. of India graced the occasion as Chief Guest. During the occasion the chief guest said that the transmission of information and knowledge to students has evolved greatly and facilitated by technology. Transformation of information is crucial part of any learning. Learning of any type requires sharing of knowledge. Digital revolution made the searching of information very easy. Digital mode has been great enabler of sharing of information.

Prof. MURTHY TATAVARTHY, Associate Professor, Department of Fashion Technology, National Institute of Fashion Technology graced the occasion as Guest of Honour.

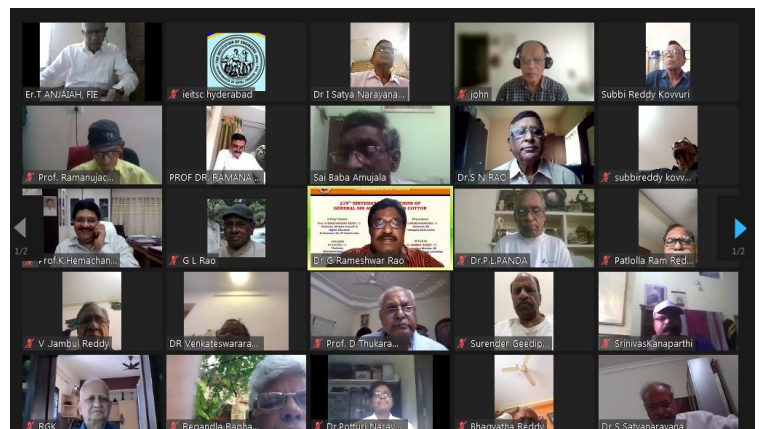
Dr G Rameshwar Rao, FIE, Chairman, IEI, TSC welcomed the gathering and presided over the function. **Dr P L Panda**, FIE, Committee Member, IEI, TSCC & Convener of the Event introduced the Chief Guest & Guest of Honour and **Er T Anjaiah**, FIE, Hon. Secretary, IEI, TSC proposed vote of thanks.



219th Birthday Celebrations of General Sir Arthur Thomas Cotton

May 15, 2021: IEI, Telangana State Centre organized 219th Birthday Celebrations of General Sir Arthur Thomas Cotton held on 15th May, 2021 at 17.00 hrs through ZOOM Cloud Meeting App.

Prof. K HEMACHANDRA REDDY, FIE, Chairman, AP State Council of Higher Education & Chairman, IEI, AP State Centre graced the occasion as Chief Guest. During the occasion the chief guest said about the yeoman services and the contributions of General Sir Arthur Thomas Cotton in Irrigation projects.

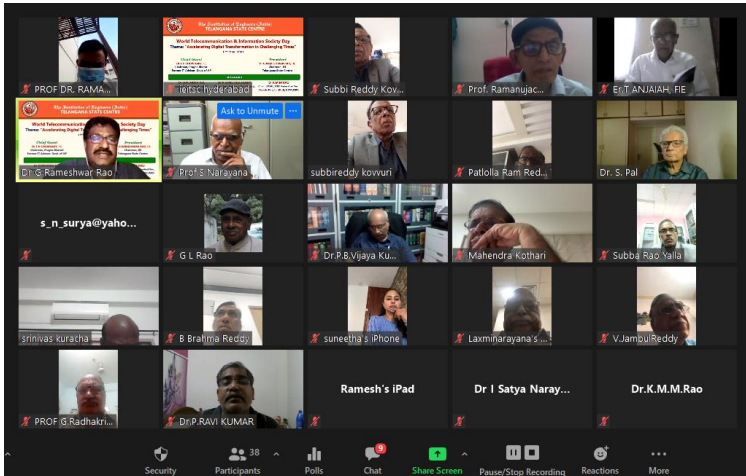


During the occasion **Dr S N RAO**, FIE, Chairman, ESCI Governing Council & Past Vice President, IEI; **Dr I S N RAJU**, FIE, Past Chairman, IEI, TSC; **Dr S SATYANARAYANA**, FIE, Past Chairman, IEI, TSC; **Er JAMBUL REDDY**, FIE, Committee Member, IEI, TSCC; **Prof. (Dr.) RAMANA NAIK B**, FIE, Jt. Hon. Secretary, IEI, TSC; **Dr M V VENKATESWARA RAO**, FIE, Committee Member, IEI, TSCC participated and presented their views.

Dr G Rameshwar Rao, FIE, Chairman, IEI, TSC welcomed the gathering and presided over the function. **Er T Anjaiah**, FIE, Hon. Secretary, IEI, TSC proposed vote of thanks.

World Telecommunication & Information Society Day on “Accelerating Digital Transformation in Challenging Times”

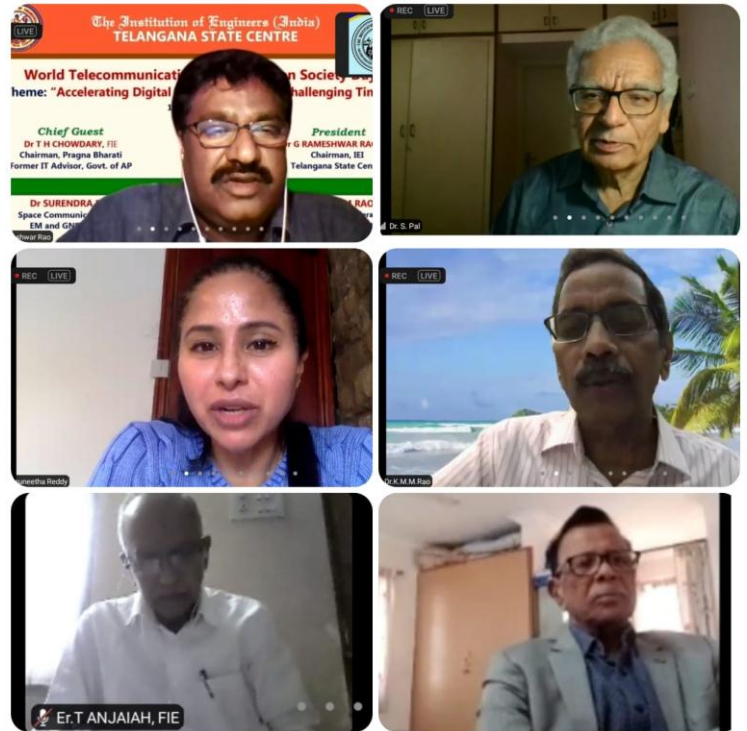
May 17, 2021: IEI, Telangana State Centre organized World Telecommunication & Information Society Day on “Accelerating Digital Transformation in Challenging Times” on 17th May, 2021 at 17.00 hrs through ZOOM Cloud Meeting App.



During the occasion eminent experts presented their presentations. “India and it’s GNSS PARADIGM, A step towards self sustain (ATMANIRBHARATA)” by **Dr Surendra Pal**, Space Communication, RF, EM and GNSS Expert, “Digitalisation in COVID Era” by **Dr K Suneetha Reddy**, Consultant Forensic Psychiatrist and “Future of Healthcare, Challenges and Advance in ICT” by **Dr K M M Rao**, Chair, LMAG., IEEE Hyderabad Sec., & Deputy Director (Rtd), NRSC, ISRO.

Dr Surendra Pal said that in the modern era, NAVCOM (Navigation & Communication) are two important parameters of the world. India has been quite active in both the spheres of technology, particularly related to space segment. India maintains its own communication satellite constellation INSAT and GSAT series of satellites (Since early eighties) and also its Space based wide Area Augmentation System GAGAN(As per ICAO requirements) and its own Regional Navigation Satellite System (IRNSS- which has been dedicated to the nation by Prime Minister Narendra Modi as NavIC..The talk deal about the Indian Space Based Navigation Systems, consisting of GAGAN and NavIC along with the ground segment, its applications and the system performance parameters. Both the systems are operational and

India/ISRO has joined the club of countries which maintain their own independent constellations.



Dr K Suneetha Reddy said about the Digitalisation in COVID era. Work from home, driven by technology, may be something a growing number look for in a job, many now finds themselves away from their routine, increasingly isolated or juggling other commitments. Like anything, it’s important that the balance is maintained between our physical lives and our digital lives. Looking beyond the corona virus pandemic, it’s likely that the nature of work will be altered, and with that comes new mental health considerations. Monitoring workload, and performance indicators are also important, to make sure people are not under or indeed over working. Having an online space that you can dip in and out is crucial to maintain that work life boundary. Very clear levels of communication from managers about what is expected. Encouraging a culture where people take up the opportunity to go and exercise is incredibly important.

Dr K M M Rao said that the advances in treatment methods are increasing in healthcare day by day, with the development of imaging systems, image processing software, artificial intelligence techniques, robotics, high speed and easy availability of computing systems, large capacity storage devices, wide spread high speed internet and lasers etc., Image processing is helping in easy diagnosis of diseases, non-invasive surgeries, remote surgeries, autonomous hospital facilities and many more activities for healthcare.

Dr G Rameshwar Rao, FIE, Chairman, IEI, TSC welcomed the gathering and presided over the function. **Er K Subbi Reddy**, FIE, Committee Member, IEI, TSCC & Convener of the Event introduced the Speakers and **Er T Anjaiah**, FIE, Hon. Secretary, IEI, TSC proposed vote of thanks.



FUTURE PROGRAMMES : JUNE 2021

Date & Time	Event	Chief Guest / Speaker
05.06.2021 at 1000 hrs	WORLD ENVIRONMENT DAY Theme: "Ecosystem Restoration" In association with ESCI	Chief Guest: Er Narendra Singh, FIE President, IEI
06.06.2021 1030 to 1230 hrs	Geometric Dimensioning & Tolerancing (GD&T) Session-I	Speakers: Dr S Satyanarayana, FIE Imm. Past Chairman, IEI, TSC Er B Srinivasulu Trainer and Consultant GD&T
12.06.2021 1030 to 1230 hrs	Geometric Dimensioning & Tolerancing (GD&T) Session-II	Speaker: Dr S Satyanarayana, FIE Imm. Past Chairman, IEI, TSC
17.06.2021 0930 to 1330 hrs	One Day Workshop on "Smart manufacturing: Connected Factories" In association with Department of Mechanical Engineering, CBIT	Speakers: Dr G Chandra Mohan Reddy, FIE Prof. of Mech. Engg, CBIT & Former Principal Past Hon.Secretary & Member, IEI, TSCC Dr Srinu Perla Global Head – Technical Training, CYIENT
19.06.2021 1030 to 1230 hrs	Geometric Dimensioning & Tolerancing (GD&T) Session-III	Speaker: Dr S Satyanarayana, FIE Imm. Past Chairman, IEI, TSC
19.06.2021 at 1730 hrs	Er G V Subba Rao Fifth Endowment Lecture on "Stormwater Drainage System in GHMC"	Chief Guest: Er Rajendra K Jain, FIE Former Chairman, Central Water Commission Speaker: Er C N Raghu Prasad, FIE Joint Secretary to Governor, Telangana
21.06.2021 At 1700 hrs	Er T Hanumantha Rao Fourth Endowment Lecture on "Implementation Of Decision Support Systems (Dss) For Effective Management Of Irrigation Projects: Successful Case Studies In India And World"	Speaker: Prof. Sharad K Jain, FIE Former Director, NIH, Roorkee & Visiting Professor, Civil Engg. Dept. , IIT Roorkee
22.06.2021 At 1700 hrs	Webinar on "Accelerating Digital Transformation in Challenging Times"	Chief Guest: Er Narendra Singh, FIE President, IEI
26.06.2021 1030 to 1230 hrs	Geometric Dimensioning & Tolerancing (GD&T) Session-III	Speakers: Dr S Satyanarayana, FIE Imm. Past Chairman, IEI, TSC Er B Srinivasulu Trainer and Consultant GD&T

Published by Er T Anjaiah, FIE, Honorary Secretary, The Institution of Engineers (India), Telangana State Centre, Khairatabad, Hyderabad. Printed by Er T Anjaiah, FIE Honorary Secretary, The Institution of Engineers (India), Telangana State Centre, Khairatabad, Hyderabad on behalf of The Institution of Engineers (India), Telangana State Centre. Printed at M/s Atlas Stationery and Printing Industries, Ashok Nagar, Hyderabad. Published from The Institution of Engineers (India), Telangana State Centre, # 6- 2-910, Visvesvaraya Bhavan, Khairatabad, Hyderabad - 500 004, Telangana. Editor Er T Anjaiah, FIE, Honorary Secretary, The Institution of Engineers (India), Telangana State Centre, Khairatabad, Hyderabad - 500 004. Telangana.

PRINTED MATTER | BOOK-POST

If undelivered please return to :
The Institution of Engineers (India)
Telangana State Centre, Visvesvaraya
Bhavan, Khairatabad, Hyderabad-500004.

To

Date of Publication :

25th May, 2021

Date of Posting

28th May, 2021

RNI. No. APBIL/2009/33477

Regd.No.D/RNP/HD/245/2021-23

for the years 2021-23