

<b>Board for Community Development through Education Govt. of AP</b>			
<b>Title of the Seminar:</b>		<b>World Telecommunication and Information Society Day</b>	
<b>Program Date:</b>	<b>17<sup>th</sup> - 05 - 2025</b>	<b>Program Time:</b>	<b>06:00 PM</b>
<b>Associate organization (if any):</b>		<b>The Institution of Engineers (India), Andhra Pradesh State Centre</b> <b>&amp;</b> <b>Institution of Electronics and Telecommunication Engineers (IETE), Vijayawada centre</b>	

## **REPORT**

The **World Telecommunication and Information Society Day (WTISD)** was observed on **May 17, 2025**, to raise awareness about the importance of the internet and information and communication technologies (ICTs) in bridging the global digital divide. The 2025 theme, "**Gender Equality in Digital Transformation**", focused on ensuring inclusive access to digital technologies for women and marginalized genders in today's rapidly evolving tech landscape.

This online program was jointly organized by the Board for Community Development through Education Govt. of AP, and The Institution of Engineers (India), Andhra Pradesh State Centre and The Institution of Electronics and Telecommunication Engineers (IETE), Vijayawada Centre.

### **Chief Guest & Keynote Speaker**

**Shri P. Muralidhar**  
 Scientist-F, DLRL, Hyderabad

### **Presiding Dignitaries:**

**Prof. (Dr.) M. L. S. Deva Kumar, FIE**  
 Chairman – IEI Andhra Pradesh State Centre

**Dr. B. Surya Prasada Rao, FIETE**  
 Hon. Chairman, IETE Vijayawada Centre

**Dr. Shaik Riyazuddin, FIETE**  
 Hon. Secretary, IETE Vijayawada Centre

**Prof. (Dr.) A. V. Naresh Babu, FIE**  
 Hon. Secretary – IEI Andhra Pradesh State Centre

### **Inauguration and Welcome**

The program commenced with a formal welcome address by **Prof. (Dr.) A. V. Naresh Babu, FIE, Honorary Secretary, IEI-APSC**. He greeted the dignitaries, participants, and attendees and highlighted the importance of digital equity in today's interconnected world.

**Prof. (Dr.) M. L. S. Deva Kumar, FIE, Chairman, IEI-APSC and Secretary & CEO, BCDE, delivered the presidential address.** He emphasized the critical role of **digital transformation in empowering communities**, especially women, and urged the engineering and IT communities to work toward making technology accessible and safe for all.

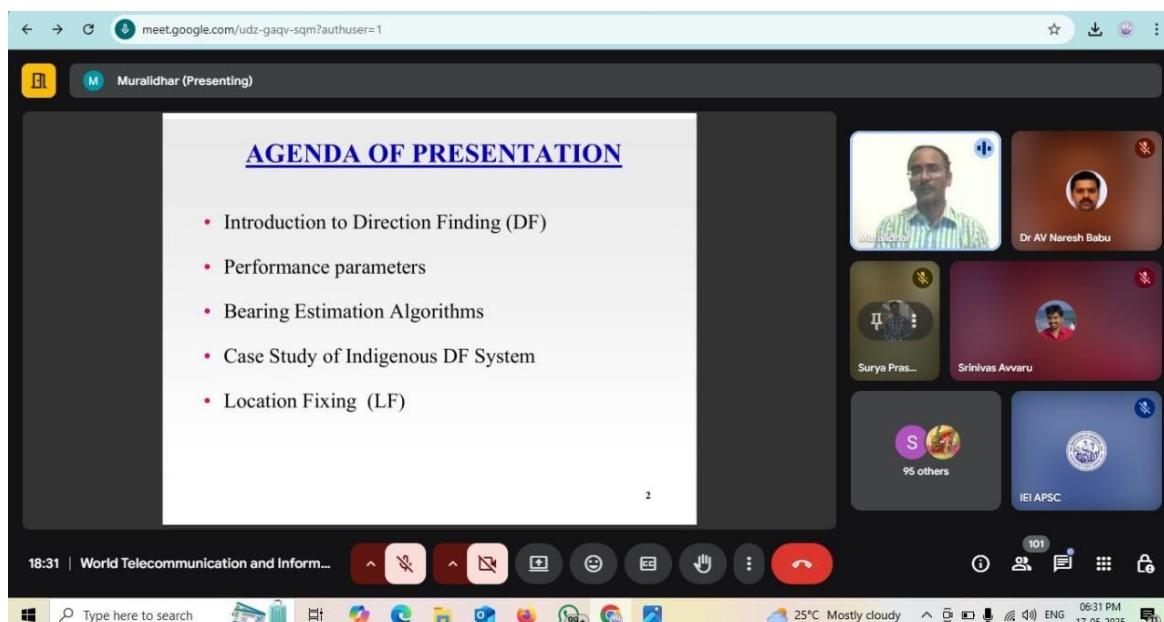
**Dr. B. Surya Prasada Rao, FIETE, Hon. Chairman, IETE Vijayawada Centre, spoke about IETE's ongoing efforts in promoting electronics and telecommunication education among youth and underrepresented communities.**



**Dr. Shaik Riyazuddien, FIETE, Hon. Secretary, IETE Vijayawada Centre, reiterated the importance of creating inclusive digital platforms and education systems that address gender disparities in tech careers and digital literacy.**

The keynote address was delivered by the **Chief Guest, Shri P. Muralidhar, Scientist-F, Defence Electronics Research Laboratory (DLRL), Hyderabad.**

In his insightful talk, he shared real-world applications of telecommunications and ICT in defense and societal transformation. He highlighted the importance of creating **gender-neutral digital environments**, encouraging participation of women in STEM fields, and building systems that are secure, scalable, and socially impactful.



## **Introduction to Direction Finding (DF)**

- Overview and importance in RF and communication systems
- Historical and modern relevance in defense and civil applications

## **Applications of DF Systems**

- Military and surveillance
- Maritime and aviation navigation
- Emergency and rescue operations
- Spectrum monitoring and interference management

## **Performance Parameters in DF**

- Accuracy and resolution
- Sensitivity and signal-to-noise ratio (SNR)
- Response time and reliability under various environments

## **Bearing Estimation Algorithms**

- Overview of classical and modern algorithms
- Techniques like MUSIC, ESPRIT, and Watson-Watt
- Comparison of algorithmic performance in different scenarios

## **Indigenous DF System: Case Study**

- Design and development approach
- System architecture and technical highlights
- Field performance, testing results, and deployment success
- Role of Indian R&D and Make in India initiative

## **Conclusion and Strategic Relevance**

- DF's critical role in national security and communication
- Future scope in AI-based DF and multi-sensor integration

## **Vote of Thanks:**

The program concluded with a **Vote of Thanks** delivered by **Prof. (Dr.) A. V. Naresh Babu, FIE**. He thanked all the collaborating organizations, the keynote speaker, and attendees for their presence and contributions. He reaffirmed the commitment of IEI, IETE, and BCDE to promoting inclusive, responsible digital development.

