

REPORT on the event Student Professional Awareness Activities

“Student Professional Awareness Activities (SPAA)”, is a two-day event that was organized from 27th - 28th December 2019 in Sangamam Seminar Hall of ECE Dept., by IEEE Student Branch of VFSTR (Deemed to be University) in collaboration with IEEE Hyderabad Section. The main theme of the event is the Humanitarian Grand Challenges. It is a professional awareness emphasizes the importance of technical and non-technical aspects of engineers to future engineers.

The event began on a bright note with the welcoming of guests and lighting of the lamp. Dr. N. Usha Rani, Senior IEEE Member and coordinator addressed the gathering and stated the theme of the event SPAA & IEEE. She highlighted the importance of awareness of new technologies. Then, Mr. Ravi Shekhar, Assoc. Professor, VFSTR and Dr. Sk. Jakeer Hussain, Deputy HOD ECE Dept, and SB branch Counselor addressed the gathering and mentioned the importance of IoT, the application of microcontrollers and lifestyle to technology. Later, Prof. Dr. V. Prithviraj, MS(IIT-M), Ph.D. (IIT-KGP) was the Guest of Honor at the inaugural function who talked about the drone technology and he also mentioned the applications of drone technology in the present scenario.

The day continued with a session from Sri D. Rama Krishna, MD, Efftronics, Vijayawada, who spoke about “India’s Readiness and Skill development for industry 4.0” and also shared the facts about industrial revolutions in India and the world. He said that communication, collaborating without inhibition, capabilities to use the present technology, leadership mindset, autonomy, data science, ability to have visual tools, mathematical and statistical capabilities are the qualifications to start and lead a successful career. He finally concluded the session by mentioning about the characteristics that a person should need to have for success.

Afterward, Mr. K. Vinay Kumar, GIS-Analyst from Terra Drone India pvt.ltd spoke about "Basics of UAV, Remote Sensing and GIS" , Use of AR/VR with examples from around the world. He demonstrated the types of UAVs, advantages, and disadvantages of UAV, Photogrammetry, choice of lens, types of lens and their usage. The session becomes more interactive while he was explaining about remote sensing, sources of satellites, GIS and visual positioning system (VPS).

In the afternoon session, there was a skype presentation from Dr. K. Subba Rangaiah, Director of Veda IIT who made the students know about “career opportunities in core domain and software domain”. He told that semiconductors are the key enabling and foundation of modern technology. He also discussed how network devices are upgrading and change in technology is happening every two years. He demonstrated the steps followed to make a semiconductor and how the mapping of the global semiconductor value chain has happened. In QA sections he cleared the doubts “how technology scaling comes down and the problems faced while scaling down the technology” which were expressed by the audience. He spoke about career growth and job opportunities for engineers on the core side. Finally, he concluded the session by briefing about AI, ML, IoT, and Blockchain technology.





On the second day of the event, the candidates were made to know about Social Networking in Career Development by Dr. A. Sharada, VFSTR. She mentioned the importance of managing professional identity, build and engage with professional network, access knowledge, insights and opportunities from having LinkedIn profile. She also spoke about starting own technical blogs and updating the blogs.

Mentioning the applications of plastic and impact on environment economy, Mr. Krishna Pratap Singh, Asst. Technical Officer from CIPET added the usage of plastic in infrastructure by recycling it and plastic myths. He explained about classification of polymers, thermoplastic and thermoplastic consumption in India. The session has gone through many queries asked by the participants.

Later in the day, Prof. Dr. E. Suresh Babu from NIT, Warangal demonstrated about the BlockChain Technology which is going to be the digital trust in future. He elaborated about trends & technology, trends of attacks against technology and need of cyber security. He briefly explained about the applications like 5G technology which is distributed in nature, cyber security and AI, big data, digital currencies, assisted transportation, edge computing and cloudification. He told that success of IoT purely depends on privacy and blockchain is the only solution for cyber security. He also spoke about advances in landmark technologies, malware and security paradigm for IoT. He finally concluded the session by briefing about decentralized, digitalized and shared ledger which are resistant to tampering.

In the afternoon session, Sri Santosh Chaluvadi, CEO of Supraja Technologies, spoke about “Digital Security” and created awareness on social media. He discussed about the circumstances faced by the society due to hacking and gave some examples which he observed from cybercrimes. The session added fuel to the activeness of the candidates present in the seminar hall. He mentioned about some applications which are used to identify whether our PCs or mobiles been hacked or not.

Finally the last session of the event was taken by Prof. Dr. V. Prithviraj, MS(IIT-M), Ph.D. (IIT-KGP), who spoke about implementation of IoT for smart cities. He discussed about IoT ecosystem, wireless sensor networks, five layers of IoT platform and prototyping platforms. He told the participants about the importance of events conducted by IEEE and ended the session.

Later, valedictory function was carried out for the event guests and the coordinators of the event are lauded by Prof. Dr. V. Prithviraj and mentioned about the memberships in professional societies. Finally

event was closed with the vote of thanks given by Dr. N. Usha Rani and Asst.Prof. Mr. Ravi Shekhar.

