



Department of  
**Electronics and Communication  
Engineering**



# Jaypee University of Information Technology Waknaghat

## Event Report: Session-6

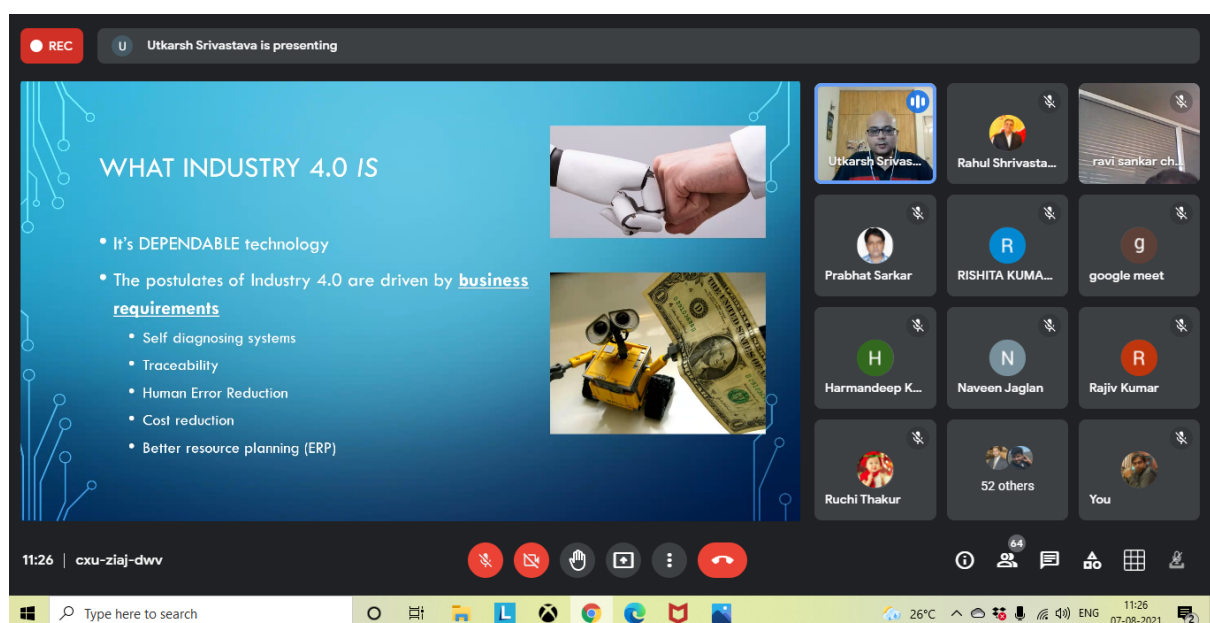
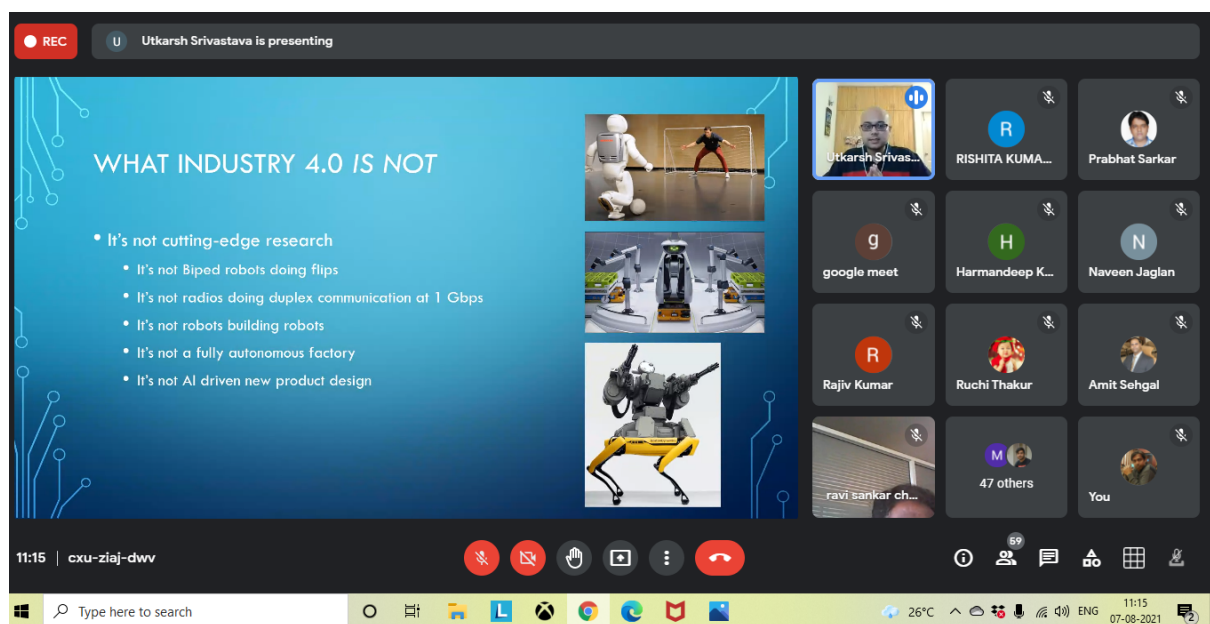
07<sup>th</sup> Aug, 2021

Department of Electronics and Communication Engineering of Jaypee University of Information Technology, Solan organized the sixth session of “Workshop on Industrial Revolution 4.0” on 7<sup>th</sup> Aug 2021. The topic of the sixth session was **Advanced Robotics and Automation** and **Mr. Utkarsh Srivastava, Acalvio Technologies, Bengaluru** was the honourable speaker.



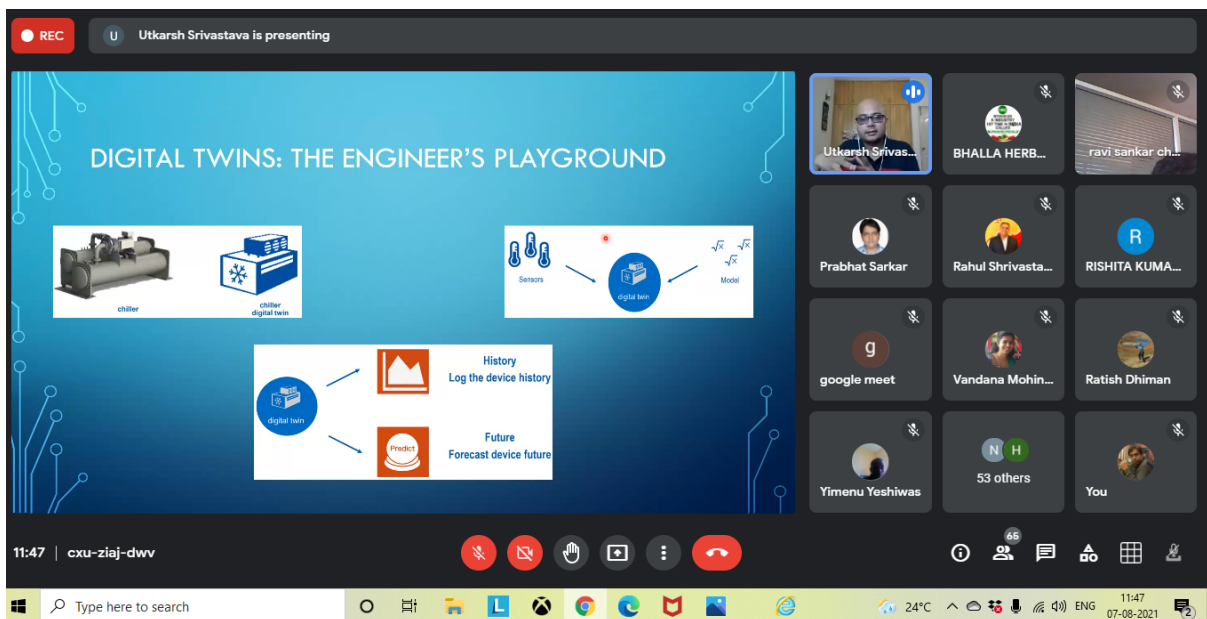
**Ms. Rishita Kumari**, Second year student of Department of Electronics and Communication Engineering welcomed and introduced the speaker. Our eminent speaker, Mr. Utkarsh is an alumnus of ECE dept. of JUIT 2007-2011 batch. He's a hands-on geek, and a firm believer in using the best technology for the job. During his time as a student at JUIT, he was pivotal in starting autonomous robotics in the university, and represented the university in many national robotics and coding competitions. In his 10 years of professional career, he's mostly

worked with hi-tech start-ups and driven cutting edge technologies. He has worked extensively on high-performance networking and radio systems, and has patented designs in this field to his name. In 2017, he co-founded Accelopt Networks, where he designed and built self-learning and AI-driven optimization and edge-computing technology for telecom networks. The company was acquired by Mavenir Systems in 2019. It is worth noting that edge-computing technology is a core postulate of industrial IoT systems as well. Currently, he's driving innovation in the field of AI deception technology for cyber-security systems at Alcalvio Technologies in Bengaluru, which is a California-based start-up funded by the likes of Google Ventures and Accel Partners.



He started his lecture with the usual misconception regarding Industrial 4.0 and what actually is Industrial 4.0. Concentrating his talk on robotics, he explained that Robotics in Industry

should be smart and soft intensive, and all the robots should be interconnected with each other and should be controlled centrally. He explained Digital Twins which is a virtual representation that serves as a real-time digital counterpart of a physical object or process.



He also explained various design goals in Industry 4.0, the requirement of designing a standardized system following standard protocols so that different systems developed by different companies can communicate with each other.



At the end of his talk , with the help of some videos, he showed the real life examples where Robots are working in industry as per Industry 4.0 and the prospect of India on Industrial 4.0

Industry 4.0 Now has Arrived

12:09 | cxu-ziaj-dwv

Utkarsh Srivastava is presenting

Participants: Utkarsh Srivastava, google meet, Pratik Dubey, ravi sankar ch..., Prabhat Sarkar, Yimenu Yeshiw..., Vandana Mohin..., BHALLA HERB..., Rahul Shrivasta..., RISHITA KUMA..., 51 others, You

12:09 25°C 07-08-2021

INDUSTRY 4.0 AND 'THE INDIA STORY'

- What does It mean for Indian industry?
  - Excitement
  - The pain of adaption
- It's not going to setup new industries – it's going to make them more efficient
- Major challenges lie in process design
- Can the Indian Industry adapt E-KANBAN?

12:20 | cxu-ziaj-dwv

Utkarsh Srivastava is presenting

Participants: Pramod Sakhar..., Utkarsh Sriva..., ravi sankar ch..., Prabhat Sarkar, Yimenu Yeshiw..., Pratik Dubey, Vandana Mohin..., BHALLA HERB..., Rahul Shrivasta..., RISHITA KUMA..., 55 others, You

12:20 25°C 07-08-2021

The session ends with the answers to the questions from the participants. Overall, the session helps the participants to gain knowledge on Robotics in Industrial 4.0