



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S  
RESEARCH FOUNDATION  
(Deemed to be University under section 3 of the UGC Act 1956)



## Report on Alumni Guest Lecture on Industry 4.0

Date: 07.04.2021

Time: 10.00am

Webinar Platform: Microsoft Teams

The Department of Electrical and Electronics Engineering in association with AVIT Alumni Association organized a webinar on Industry 4.0

The resource person of the day was Mr.Melvin Paul Miki Venceslass, Design Engineer, Sanmina Sci India Pvt Ltd, Chennai, an Alumni of Mechatronics Engineering belonging to the Batch 2014-18. He shared his views and ideas about Introduction to 4.0, overview of an Industry, elements of Industry 4.0, Building up of an I4.0 and real time systems.

### Introduction



### Elements of I-4.0

- ★ Autonomous Robots (Automations)
- ★ Internet of Things
- ★ System Integration
- ★ Cyber security
- ★ Cloud Computing
- ★ Additive Manufacturing
- ★ Augmented Reality
- ★ Big Data

The infographic titled "INDUSTRY 4.0 - the digital transformation" shows a central factory icon surrounded by various digital and industrial icons representing the elements listed above.

### ★ Augmented reality (AR)



Augmented reality (AR) is an enhanced version of the real physical world that is achieved through the use of digital visual elements, sound, or other sensory stimuli delivered via technology.

### Real Time Systems

#### Softwares



The resource person also elaborated about the need for automating an Industry in order to improve in terms of productivity, reliability and repeatability. He shared about how the automated robots, IoT, Cloud computing, Big Data, Augmented reality, Cyber Security etc., plays a major role in Industry 4.0. And a description was given about building an I4.0 Environment that included Plan/Design of an architecture, Simulating, Validating, Fine tuning and Implementing. It was a very interactive session and the students clarified their doubts. The Session was attended by the students and the Faculty members of the Department of Electrical and Electronics Engineering and Mechatronics Engineering.