

## GUEST LECTURE ON 'MANUFACTURING AND IOT'

### Guest Lecture on 'Manufacturing and Internet of Things' by our prominent Alumnus

Date of the Event	26.09.2019
Title of the Event	Guest Lecture on 'Manufacturing and IOT'
Organized by	Computer Science and Engineering Department
Name of Resource Speaker	Mr. Uma Shankar, Software Development Manager, Panasonic Factory Solutions Company of America

The Department of Computer Science & Engineering, MVJCE, organized a Guest Lecture on 'Manufacturing and Internet of Things', on 26<sup>th</sup> September 2019, at 11:00 am, in Seminar Hall 4, MVJCE. 100 students from the CSE Department attended the Guest Lecture.

The main focus of this Guest Lecture was to create awareness on the 'Manufacturing' domain using Internet of Things, which is popular in all academia, business sectors, and research and development, to make effective decisions in day to day activities. The welcome address was given by Ms. Lavanya (Student/CSE). Ms. Lavanya introduced the Guest Speaker, a prominent alumnus of CSE Department, to the audience.



Guest Lecture on 'Manufacturing and IOT' organized by Department of CSE on 26.09.19 at Seminar Hall 4 MVJCE:Mr Uma Shankar (Alumnus), Software Development Manager, Panasonic Factory Solutions Company of America, explaining the concepts of Manufacturing using IOT.

The Resource Speaker Mr. Uma Shankar, began the lecture by explaining that the Manufacturing process is basically a complex activity that involves the steps to convert a raw material into a finished product. The process involves people under a broad number of disciplines, who have expertise in their fields. It also involves a wide range of machinery, tools, and equipment, with numerous levels of automation, such as computers, robots, and other equipment. Manufacturing pursuits must be receptive to several needs and developments. Mr. Uma Shankar spoke about the different types of manufacturing processes: **casting and molding, machining, joining, and shearing and forming**. He also demonstrated how human errors in a manufacturing process may lead to huge losses for a company.



Guest Lecture on 'Manufacturing and IOT' organized by Department of CSE on 26.09.19 at Seminar Hall 4 MVJCE: Explaining how the Industrial Internet of Things is a way to digital transformation in manufacturing process by showing real time practices in Panasonic Company.

He emphasized the fact that the **Industrial Internet of Things (IIoT)** is a way to digital transformation in manufacturing. Industrial IoT employs a network of sensors to collect critical production data, and uses cloud software to turn this data into valuable insights into the efficiency of the manufacturing operations. IoT is profitable in fields where faster development as well as the quality of products are the critical factors for a higher Return on Investment (ROI). He demonstrated this idea by showing some sample videos of the manufacturing processes that are taking place in Panasonic Company.

Students who attended this session understood how IOT plays an important role in the Manufacturing process. They got an idea about how CS students can work in interdisciplinary practices to improve the efficiency of manufacturing processes, and how IOT has transformed Manufacturing, with things like big data, artificial intelligence (AI) and machine learning.

There was an interactive Question and Answer session following the presentation, and the program came to an end with the proposing of Vote of Thanks.