

Report on Expert Lecture on Industry 4.0

Date: March 21, 2024

Time: 11:00 AM

Venue: Room number 805, IT Block (8th block), MAIT

Introduction:

On March 21, 2024, an expert lecture on "Drivers, Enablers, Compelling Forces, and Challenges for Industry 4.0" was organized at MAIT, with Mr. Lalitesh, CEO of Vision Robotics, as the guest speaker. The lecture aimed to enlighten students about the significant aspects of Industry 4.0 and its impact on various industries. The event was headed under the leadership of Dr Monika Gupta, HOD, EEE and faculty coordinators of CareerCrafters society, Ms Monika Bhardwaj and Ms Ayushi Aggarwal.

Attendance:

The lecture witnessed active participation from 30 students belonging to the Electrical and Electronics Engineering (EEE) branch. The presence of enthusiastic students demonstrated their keen interest in understanding the advancements in industrial technologies.

Event Overview:

Mr. Lalitesh commenced the lecture by providing an insightful overview of Industry 4.0, emphasizing its revolutionary impact on manufacturing processes, automation, and data exchange. He elucidated the key drivers propelling the transition towards Industry 4.0, including technological advancements, globalization, and changing consumer demands.

Key Points Covered:

During the lecture, Mr. Lalitesh delved into various enablers facilitating the implementation of Industry 4.0, such as the Internet of Things (IoT), Artificial Intelligence (AI), and Cyber-Physical Systems (CPS). He elaborated on how these technologies synergize to optimize production processes, enhance efficiency, and drive innovation across industries.

Moreover, Mr. Lalitesh shed light on the compelling forces behind the adoption of Industry 4.0, including the need for agility, competitiveness, and sustainability in today's dynamic market landscape. He emphasized the role of disruptive technologies in reshaping traditional business models and creating new opportunities for growth and development.

Challenges Addressed:

In addition to discussing the benefits and opportunities presented by Industry 4.0, Mr. Lalitesh also highlighted the challenges and hurdles associated with its implementation. These challenges

encompassed issues related to data security, interoperability, workforce upskilling, and organizational resistance to change. He emphasized the importance of addressing these challenges proactively to leverage the full potential of Industry 4.0.

Interactive Session:

Following the presentation, Mr. Lalitesh engaged the audience in an interactive session, encouraging them to share their perspectives, insights, and queries related to Industry 4.0. The students actively participated, asking thought-provoking questions and seeking clarifications on various aspects of the topic.

Conclusion:

In conclusion, the expert lecture delivered by Mr. Lalitesh provided valuable insights into the transformative impact of Industry 4.0 on modern industries. The event served as a platform for students to gain a deeper understanding of emerging technologies and their implications for future career opportunities. The engagement and enthusiasm displayed by the attendees underscored the success of the lecture in fostering knowledge exchange and stimulating intellectual discourse.

Overall, the event was a resounding success, thanks to the insightful presentation by Mr. Lalitesh and the active participation of the students. Such initiatives play a crucial role in bridging the gap between academia and industry, equipping students with the necessary knowledge and skills to thrive in the era of digital transformation.



