



## Koneru Lakshmaiah Education Foundation

(Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

❖ Recognised as Category 1 University by UGC ❖ Approved by AICTE ❖ ISO 21001:2018 Certified  
Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.

Phone No. +91 8645 - 350 200; [www.kluniversity.in](http://www.kluniversity.in)

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2577715, 2576129

## Department of Mechanical Engineering

**A.Y 2025-2026, Odd Semester**

### **Alumni Guest Lecture Report**

In view of alumni activities, Department of Mechanical Engineering conducted an Alumni Guest Lecture with **Mr. Revanth Kumar M of Y05-Batch on 22-09-2025**. He gave continuous lecture from 9:30 A.M to 10:30 A.M on the topic **“Facts and Future of Digital Manufacturing-Across the Globe”**. In on-line mode, he given presentation in Webex platform in which 107 participants (101 students and 06 faculty) of ME department were participated in blended mode in rooms M123, M124 and M126.

#### **Webex Link:**

<https://kluniversity.webex.com/kluniversity/j.php?MTID=mb292409e4428e734d7aeb20be6d837f0>

#### **During his interactive lecture, he discussed on:**

- Integration of CAD, CAM, CAE, and CNC with digital platforms.
- Use of Industry 4.0 concepts: IoT, AI, robotics, big data, and cloud computing.
- Additive manufacturing (3D printing) transforming prototyping and production.
- Digital twins enabling simulation, prediction, and optimization of processes.
- Global adoption of smart factories for efficiency and flexibility.
- Enhanced supply chain management through real-time data monitoring.
- Reduction in lead time, cost, and waste with digital workflows.
- Skill shift: demand for digitally skilled engineers and operators.
- Cybersecurity emerging as a key concern in interconnected systems.
- Current leaders: USA, Germany, Japan, China pushing advanced digital manufacturing adoption.



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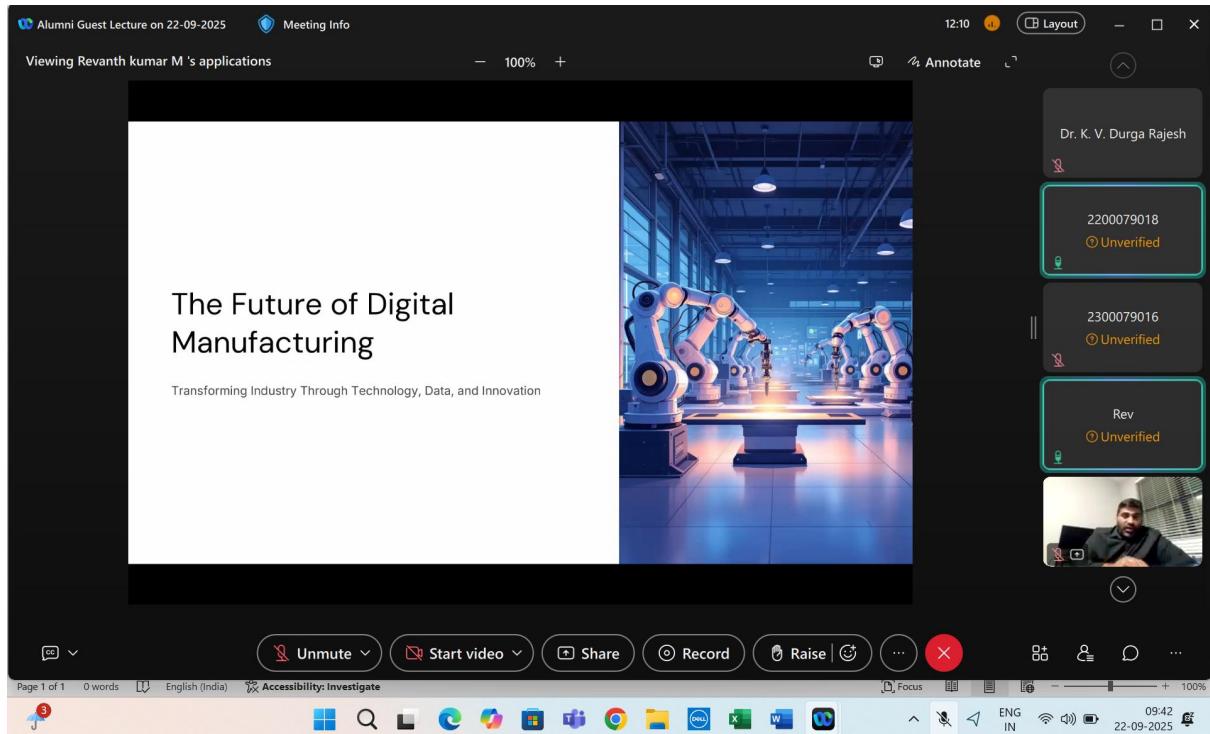
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### Some of the Screen shots / Geo tagged pictures of event attached here





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Alumni Guest Lecture on 22-09-2025 Meeting Info

Dr. K. V. Durga Rajesh 2200079018 Rev 2300079016

Viewing Revanth kumar M 's applications 100% Annotate

**Participants (76)**

Participants (76)

DR Dr. K. V. Durga Rajesh Host, me

Revanth kumar M Presenter + Unverified

2200070002 Unverified

2200070006 Unverified

2200070008 k.pratap Unverified

2200070011 PRAMOD KUMAR Unverified

2200070013 Unverified

2200070017 Unverified

2200070018 Unverified

Mute all Unmute all

Unmute Start video Share Record Raise

5 09:53 ENG IN 22-09-2025

**Five Industrial Revolutions: A Timeline**

- 1 Industry 1.0: Mechanization Late 18th - mid-19th centuries Steam power revolutionized production with the birth of large textile, coal, and iron factories
- 2 Industry 2.0: Electrification Early 20th century Electricity and assembly lines enabled mass production, transforming automotive manufacturing
- 3 Industry 3.0: Digitalization Late 20th century Computers, robotics, and CAD/CAM systems brought precision and automation to factories
- 4 Industry 4.0: Smart Factories 2010s - Present IoT, AI, and cyber-physical systems created networked, intelligent manufacturing ecosystems
- 5 Industry 5.0: Human-Centric 2020s - Future Human-machine collaboration prioritizes sustainability, creativity, and social well-being





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Alumni Guest Lecture on 22-09-2025 Meeting Info

34:33 Layout

Dr. K. V. Durga Rajesh 2200079018 Rev 2300079016 Kamal deep Akula

Unverified Unverified Unverified Unverified

Viewing Revanth kumar M 's applications

100%

Regional Leadership: Americas

Market Dominance

- Commands 38% of global revenue in 2024
- U.S. market: \$133.9B growing to \$470.9B by 2034
- Strong CAGR of 13.4% driven by automotive/aerospace

Key Differentiators

- Advanced cybersecurity and zero-trust architectures
- 25% of delivery vans transitioning to EVs via digital optimization
- Department of Energy grants accelerating smart factory adoption

Unmute Start video Share Record Raise Focus 10:04 ENG IN 22-09-2025



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The screenshot shows a video conference interface with a presentation slide titled "The Road Ahead". The slide features a futuristic industrial scene with a yellow and orange robot in the foreground. To the right, a list of four trends is presented:

- 1 2025: Foundation  
55% of manufacturers leverage generative AI; digital twins market reaches €16.42 billion
- 2 2027: Acceleration  
50% deploy AI agents for predictive maintenance; supply chain investments hit \$3.4 trillion
- 3 2030: Transformation  
Digital twins unlock \$1.3 trillion economic value; market reaches €240.11 billion
- 4 2032: Evolution  
1.9 million new manufacturing jobs require hybrid technical-digital skills

The slide also includes a quote: "The future belongs to manufacturers who embrace digital transformation today. Assess your digital maturity now to secure tomorrow's competitive advantage." A "Match with GRAMIN" button is at the bottom right.

At the top of the interface, the title "Alumni Guest Lecture on 22-09-2025" and "Meeting Info" are visible. The top right shows the time "11:58" and a "Layout" button. The bottom of the interface shows a toolbar with various icons and a status bar indicating "ENG IN", "22-09-2025", and "10:20".

Few students asked questions and interacted with speaker and then Dr. A.V.S Ram Prasad delivered Vote of Thanks to the speaker.

**Prepared by**

**(Dr. A.V.S Ram Prasad)**

**Approved by**

**(Dr. T. Vijaya Kumar)**