



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

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:

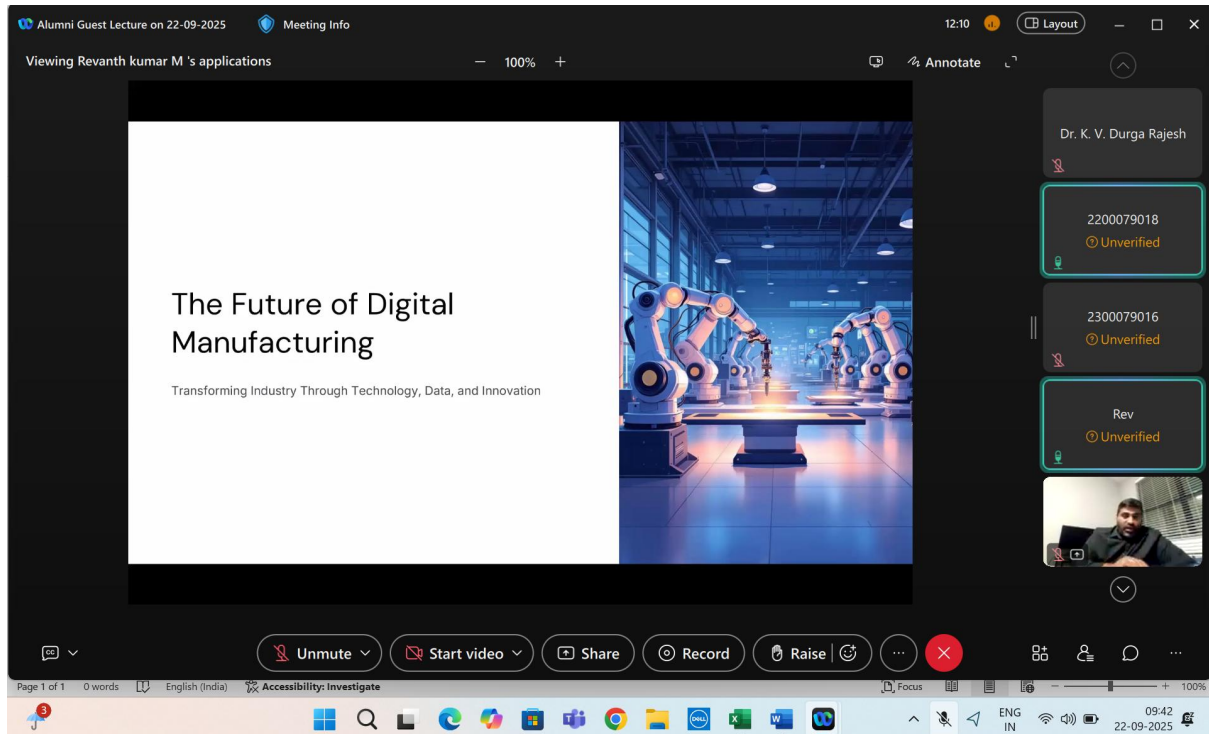
<https://kluniversity.webex.com/kluniversity/j.php?MTID=mb292409e4428e734d7aeb20be6d837f0>

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.



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 Unverified Rev 2300079016 Unverified

Viewing Revanth kumar M's applications 100%

Five Industrial Revolutions: A Timeline

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

Participants (76)

Invite and remind

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

ENG IN 09:53 22-09-2025



Guntur, Andhra Pradesh, India
Seethampuram, Tadepalle, Guntur, Andhra Pradesh 522302, India
Lat 16.440705, Long 80.622835
09/22/2025 09:44 AM GMT+05:30
Note : Captured by GPS Map Camera



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Alumni Guest Lecture on 22-09-2025 Meeting Info 34:33 Layout

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

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Annotate

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

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Page 2 of 2 0 words English (India) Accessibility: Investigate ENG IN 10:04 22-09-2025



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Alumni Guest Lecture on 22-09-2025 Meeting Info 11:58 Layout

Dr. K. V. Durga Rajesh Rev V N Siddhanth 2200079011-Anirudh 2200079015

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The Road Ahead

- 1 2025: Foundation
55% of manufacturers leverage generative AI; digital twins market reaches €18.42 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 future belongs to manufacturers who embrace digital transformation today. Assess your digital maturity now to secure tomorrow's competitive advantage."

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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)