




# MECHATROMA

## Department of Mechanical Engineering



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**NEWSLETTER**  
**Jul.-Sept. 2025**

# From Chief Editor's Desk



**Dr. Nitin Kumar Waghmare**  
**HOD, Mechanical Engineering**

**Dear Readers,**

I am delighted to welcome you to the latest edition of our quarterly newsletter. This publication is a testament to our collective achievements, ongoing projects, and the vibrant spirit that drives our department forward. We strive to bring you the most relevant and inspiring stories each quarter, highlighting our team's incredible work and dedication.

During the last quarter (April-June 2025), the department has made significant contributions in various domains such as teaching and research, product development, sponsored projects, outreach activities and students' achievements. I am sure this issue will give a glimpse of the above.

Remarkable things are often the culmination of a series of small, insignificant actions brought together with purpose and dedication. It is the accumulation of these small efforts that leads to extraordinary achievements. Each tiny step forward, each decision made with care, and each challenge overcome contributes to a larger tapestry of success.

The power of small actions lies not in their individual magnitude but in their collective impact. Like the threads of a rope, each strand may be weak on its own, but when woven together, they form an unbreakable bond. Similarly, the trivial things we do each day—whether it is learning a new skill, helping someone in need, or pushing through a challenging task—may seem minor in isolation. However, when combined over time, they become the foundation upon which wonderful things are built.

Embracing this mindset allows us to approach challenges with a sense of hope and resilience. It reminds us that every small victory is a step closer to achieving our dreams. So, let us celebrate the small wins, for they are the building blocks of greatness. By focusing on the journey, one small step at a time, we can create something truly remarkable.

Thank you and best wishes

**Dr. Nitin Kumar Waghmare**  
**Chief Editor & HOD**  
**Dept. of Mechanical Engineering**

**The only way to**  
do great work is to  
**love what you do**  
~ Steve Jobs

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# ISHRAE INDIA CHAPTER

## EMERGING OPPORTUNITIES THROUGH GATE & PREPARATION STRATEGY

The Department of Mechanical Engineering, in association with the ISHRAE India chapter of IIMT College of Engineering, Greater Noida, hosted a lecture on "Emerging opportunities through gate & preparation strategy" on 30th September 2025, at the Sarabhai Hall.

**Objective:** The objective is to explore career opportunities through GATE and provide effective preparation strategies. It aims to guide students in leveraging GATE scores for admissions, jobs, and research.

**Target Participants:** All students of B. Tech Mechanical Engineering

**About the Event:** The Mechanical Engineering Department under ISHRAE India chapter successfully organized a lecture on "Emerging opportunities through gate & preparation strategy" on 30th September, 2025, at the Sarabhai Hall. The event witnessed a remarkable presence of students, faculty members, and industry experts. The lecture commenced with an inaugural address by the Head of the Mechanical Engineering Department, followed by a welcome speech by Dr. Satyaveer Singh who is student branch advisor of the ISHRAE India chapter from IIMT College of Engineering, Greater Noida. The chief guest, Mr. Arjun Chhabra is an esteemed faculty member at ACE Engineering Academy and a motivational speaker with a flair for teaching. In Structural Engineering from the prestigious institution DTU. Mr. Arjun Chhabra strongly believes that in order to crack any exam it's not only the subject knowledge that is significant rather a positive and motivated mind set has a equal role to play. Thus, he is often seen interacting and motivating his students in their academic pursuits and that has helped him garner love and respect from students pan India. He has qualified GATE 5 times and holds 8+ years of GATE/ESE/PSU teaching experience. At the end of this Program, vote of thanks was given by, Dr. Love Kumar (Assistant Professor), Department of Mechanical Engineering. Other faculty members present in this program were Mr. Manoj Kumar and Mr. Krishan kumar Karotiya from Mechanical department.



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Figure 1: Faculties and students gathered to hear the lecture on "Emerging opportunities through Gate & preparation strategy" on 30th September, 2025, at the Sarabhai Hall, IIMT College of Engineering, Greater Noida.



Figure 2: Mr. Arjun Chhabra is giving a lecture in Sarabhai Hall, IIMT College of Engineering, Greater Noida



### Learning Outcome

1. Understanding GATE Opportunities
2. Effective Preparation Strategies
3. Career Path Guidance
4. Awareness of Emerging Trends
5. Enhanced Knowledge and Skills

### Social Media Link:

1. [https://www.facebook.com/satyaveer.singh.543/posts/pfbid0B8ygALSjDRidGbEbSC8dSJv3tGFXv\\_e347cPjxgtm6p1JudiHiwa5ZU66pUusuZYsl?\\_\\_cft\\_\\_\[0\]=AZXpeRthixdnpsrbCcIp\\_EglOn687d5Dm\\_pSXbkzzBd48VwfYR3jkI9WEEmyrHrS75hrr2CU7lunlUSYebvBn0Bjd-elhhWcw4BNRp8vRPuyP7dVSl3tnTbgnsGjfFOK\\_rc&\\_tn\\_=%2CO%2CP-R](https://www.facebook.com/satyaveer.singh.543/posts/pfbid0B8ygALSjDRidGbEbSC8dSJv3tGFXv_e347cPjxgtm6p1JudiHiwa5ZU66pUusuZYsl?__cft__[0]=AZXpeRthixdnpsrbCcIp_EglOn687d5Dm_pSXbkzzBd48VwfYR3jkI9WEEmyrHrS75hrr2CU7lunlUSYebvBn0Bjd-elhhWcw4BNRp8vRPuyP7dVSl3tnTbgnsGjfFOK_rc&_tn_=%2CO%2CP-R)
2. <https://www.facebook.com/100000942362411/videos/pcb.31951773017770696/1337022711344466>

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# INDUSTRIAL VISITS

## AT NESTLE PLANT

### Introduction

An industrial visit to Nestlé India Limited, Pant Nagar Plant, Uttarakhand, was organized by the Department of Mechanical Engineering on 13th September 2025. The objective of this visit was to provide students with practical exposure to industrial processes, manufacturing systems, and automation used in a leading multinational food and beverage company.

### Objective of the Visit

- The main objectives of the industrial visit were:
- To bridge the gap between theoretical learning and real-world industrial practices.
- To observe and understand the manufacturing, packaging, and quality control processes.
- To familiarize students with plant layout, safety protocols, and energy management systems.
- To interact with industry professionals and understand career opportunities in the manufacturing sector.

### Key Learnings

- During the visit, students gained valuable insights into:
- Modern manufacturing and packaging technologies.
- Industrial machinery and automation systems.
- Preventive maintenance and quality assurance techniques.
- Lean manufacturing and sustainability practices.
- Workplace safety and hygiene protocols in the food industry.

### Interaction with Experts

Students engaged in an interactive session with senior engineers and HR representatives who provided valuable insights on:

- Career opportunities in agricultural equipment manufacturing
- The integration of Industry 4.0 in tractor production
- Mechanical design, material selection, and sustainability in product development

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### Feedback:

1. **Chandan Raj:** The visit was very insightful and well-organized. It provided a practical understanding of the manufacturing process.
2. **Kishan:** The interactive session with the management team was particularly valuable. It clarified many concepts we learned in class.
3. **Robin:** The factory tour was fascinating. Seeing the assembly line in action helped us visualize theoretical knowledge. However, more detailed explanations during the tour would have been beneficial.
4. **Aryan Pandey:** The Q&A session was excellent. The professionals were open to questions and shared their career experiences, which was motivating.
5. **Kishlay:** Providing written materials about the company and its products was very helpful in understanding the company.



Students and Faculty Members at Nestle Plant

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# GUEST LECTURE

## DIGITAL STORYTELLING – WATER STORIES

A Guest lecture was successfully conducted on Digital Storytelling – "Water Stories" on 5th September 2025 under NSS club of IIMT college of engineering. Students of Mechanical engineering have present in this session. Dr. Arunendra Kumar Tiwari was the guest of honour from TERI. The Department of Mechanical Engineering, in association with ISHRAE Delhi chapter of IIMT College of Engineering, Greater Noida, hosted this lecture at the Sarabhai Hall.

**Objective:** The objective is to validate an innovative idea or prototype and transform it into a viable start-up that can scale and succeed in the market. This involves proof-of-concept, market validation, business model development, and start-up readiness to create a successful business.

**Target Participants:** All students of B. Tech Mechanical Engineering

**About the Event:** The Mechanical Engineering Department under FOCUS Delhi chapters successfully organized a lecture on "Innovation/Prototype Validation – Converting Innovation into a Start-up" on 26th August 2025 at Sarabhai Hall. The event witnessed a remarkable presence of students, faculty members, and industry experts. The lecture commenced with an inaugural address by the Head of the Mechanical Engineering Department, followed by a welcome speech by Dr. Satyaveer Singh who is student branch advisor of the FOCUS Delhi chapter from IIMT College of Engineering, Greater Noida. The chief guest, Mr. Kanishk Saxena is an HVAC & MEP professional with 22+ years of experience in design coordination, project management, and sustainable solutions. He has led major data center projects (up to 20 MW, Tier III, IGBC Gold) and worked across commercial, residential, hospitality, and government sectors in India and abroad, delivered a keynote address on "Innovation/Prototype Validation – Converting Innovation into a Start-up." At the end of this Program, vote of thanks was given by, Dr. Girish Datt Gautam (Associate Professor), Department of Mechanical Engineering.





**Figure 1:** Faculties and students gathered to hear the lecture in Sarabhai Hall, IIMT College of Engineering, Greater Noida



**Figure 2:** Mr. Arunendra kumar Tiwari is giving a lecture in Sarabhai Hall, IIMT College of Engineering, Greater Noida

### Learning Outcome

- Understanding Innovation and Prototype Validation
- Key Skills for Start-up Success
- Innovation Methodologies
- Converting Innovation into a Start-up

**Social Media Link:** <https://www.facebook.com/share/p/1BKjaALQXg/>

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## Department of Mechanical Engineering



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