




# MECHATROMA

## Department of Mechanical Engineering



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**VOLUME XVIII, ISSUE 4**  
**NEWSLETTER**  
**Oct.-Dec. 2023**

# From Chief Editor's Desk



## Prof. Krishna Kumar Karothiya HOD, Mechanical Engineering

### Dear Readers,

Welcome to another exciting edition of "Mechatroma". As we embark on this journey of exploration, innovation, and knowledge-sharing, I am thrilled to present the remarkable accomplishments and insights from our dynamic mechanical engineering community.

This edition features a captivating array of articles, research highlights, and success stories that showcase the diverse talents within our Department. From cutting-edge research initiatives to engaging student projects, each page reflects the dedication and passion that defines our mechanical engineering community.

We also take this opportunity to celebrate the accomplishments of our students, who continue to excel not only in academics but also in extracurricular activities. Their achievements reflect the comprehensive and nurturing learning environment that IIMT College of Engineering provides.

As we navigate the challenges and opportunities in the field of mechanical engineering, it is our collective responsibility to foster an environment of collaboration, innovation, and continuous learning. The Newsletter serves as a platform to facilitate knowledge exchange, inspire creativity, and strengthen the bonds within our academic community.

I extend my gratitude to the contributors, editorial team, and everyone involved in bringing this Newsletter to fruition. Your dedication and enthusiasm have undoubtedly enriched the content and made this edition a valuable resource for all our readers.

Thank you for being a part of the "Mechatroma" community. I hope, you find inspiration and insights within these pages that resonate with your passion for mechanical engineering.

Wishing you an informative and enjoyable read!

**Best Regards,**

**Mr. Krishna Kumar Karothiya  
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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# Technical Quiz Competition

## “Test Your Knowledge On Electrical Vehicle”

On 03 October 2023, the Department of Mechanical engineering organized a Technical Quiz Competition on basics of electrical vehicles for the students of B.Tech (Mechanical Engineering). A total of 65 students participated in the Quiz Competition. Mr. Satyam Kumar was the winner of quiz.



A Glimpse of the Activity

# Guest Lecture “New Trends in Mechanical Engineering”

The Department of ME organized a session on “New Trends in Mechanical Engineering”, **05 October 2023**. The Resource Person was Mr. Gunjan Chowdhary, Faculty Trainer, Made Easy Education Pvt Ltd New Delhi.

Mr. Gunjan Chowdhary said the Mechanical Engineering, a field renowned for its adaptability and innovation, is witnessing transformative trends that shapes the future of design, manufacturing, and technology.

The speaker discussed Industry 4.0 and Smart Manufacturing. He explained the integration of digital technologies into manufacturing processes that characterizes Industry 4.0. He further added that the smart factories leverage IoT, AI, and data analytics to optimize production, monitor equipment health, and enhance overall efficiency of additive manufacturing (3D Printing).



The poster features the IIMT logo at the top, followed by the department name. It lists the speaker as Mr. Gunjan Chowdhary, Faculty Trainer at Made Easy Education Pvt Ltd New Delhi. The event is scheduled for 5th October, 2023, from 11:00 AM to 12:50 PM at C. V. RAMAN HALL. It also identifies the coordinators: Krishna Kumar Karathiya (Asst. Professor and HOD of Mechanical Engineering) and Yagesh Joshi (3rd year B.Tech Mechanical Engineering). Social media icons and the website www.iimtindia.net are at the bottom.



Guest Speaker Mr. Gunjan Chowdhary being felicitated by the HOD-ME

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# IIC Activity Report

## “Field Visit to Expo Centre”

On 06th October 2023, The Department of Mechanical Engineering, IIMT and IIC IIMT Cell organized an “Exposure and Field Visit on Problem Identification”, in Renewable Energy Expo 2023, at India Expo Centre and Mart, Greater Noida. Mr. Krishna Kumar, Mr. Satya Prakash Gupta and Mr. Dhananjay Raman guided the students throughout the exposure and field visits. Students discussed with the company representatives about their company products, working processes, efficiency and problem identifications.



Students and Faculty During Field Visit

# Minor Activity Report “Design Competition”

On 04th October 2023, the Department of Mechanical Engineering organized a minor activity on design competition. About 40 students participated in the event. Students made design drawings on AutoCAD software. The winner was Mr. Vinay Kumar a student of 4th year.



Participants During Design Competition

# Alumni Connect

## “Different Career Growth Option For Mechanical Engineers – A Symposium”

On 31 October 2023, the Department of Mechanical Engineering organized a session on Alumni Connect “Different Career Growth Options For Mechanical Engineers – A Symposium”. Mr. Sudhir Singh, an illustrious alumnus, talked about the manufacturing, design, and thermal engineering fields. He also discussed the GATE Exam pattern and subject-wise distribution. He also explained about how to excel in the industry.

Another Alumnus, Mr. Harshit Garg talked about the basics of smart manufacturing in the field of piston and engine manufacturing. He shared his old memories with students and shared a few points that students should keep in mind.



HOD, ME Felicitating Mr. Sudhir Singh

# IIC Activity On Invention

## “Difference Between Good Invention and Bad invention”

On 1st November 2023, the Department of Mechanical Engineering organized a session on “Difference Between Good Invention and Bad Invention”. The resources person Mr. Arjun Chhabra (ACE Engineering Academy New Delhi) talked about examining societal and environmental impacts and how good inventions contribute positively to society, the economy, and the environment as well as the potential adverse effects and unintended consequences of bad inventions on different aspects of society.

He also talked about the Case Studies that provide real-world examples of both good and bad inventions. It was followed by illustrations and outcomes that distinguish a successful, beneficial invention from a less desirable or harmful one.



Mr. Arjun Chhabra During Workshop



# Industrial Visit “Emerson Cold Chain Center, Gurugram”

On the 24 November 2023, the Department of Mechanical Engineering organized an industrial visit at Emerson Cold Chain Center Gurugram. Students were shown different types of compressors which are made by Copeland technology of Emerson company. Students were also trained on refrigeration simulator at the training center under various loading and operating condition.



Industrial Visits at Emerson Cold Chain Center, Gurugram

# Industrial Visit

## “Nilkamal Ltd Greater Noida”

On 01st December 2023, the Department of Mechanical Engineering organized an Industrial Visit at “Nilkamal Ltd Greater Noida”. Mr. Sandeep Singh, the plant-in-charge gave an overview of the Nilkamal Ltd . He talked about Nilkamal's association with Furniture and said Nilkamal is the world's largest manufacturer of moulded furniture and Asia's largest processor of plastic moulded products. Students were also shown various processing line, assemblies of Nilkamal furniture, mattresses and material handling units.



**Industrial Visit at Nilkamal Ltd Greater Noida**

# Guest Lecture “Career and Entrepreneurship for Mechanical Engineers”

On 4th December 2023, the Department of Mechanical Engineering organized a session on “Career and Entrepreneurship for Mechanical Engineers”, Mr. Pardeep Bamel said that Mechanical engineering is a field of entrepreneurship. There are various career opportunities for mechanical engineering students in the core domain. He also discussed the HVAC, design, manufacturing, quality, field related work experience as well as government sector jobs for students of mechanical engineering.



**Mr. Pardeep During his Lecture Session**

# Alumni Connect Guest Lecture

## “Preparation for Jobs in the Core Mechanical Field”

On 7th December 2023, the Department of Mechanical Engineering organized an Alumni Connect Lecture on “Preparation for Jobs in the Core Mechanical Field”. Mr Nishant Kumar, an alumnus, first, introduced himself about his current position and the responsibilities at the Procmart Ltd Greater Noida. He shared his experience, college time moments and memories. Nishant said that now it is the time during college when you can do what is your dream, you can make planning for your objective whether it's a government job, private company job, or business, but remember that you need to have very strong core mechanical engineering knowledge to have good jobs in the core sector.



**Mr. Nishant Kumar, Duing Alumni Connect Lecture**

# Minor Activity “Innovation Idea Presentation ”

On 8th December 2023, the Department of Mechanical Engineering organized a minor activity on “Innovation Idea Presentation”. Approximately, 35 students presented 10 ideas on various topics like small wind turbine, portable cloth hanger, fan cleaning device, and small drilling machines. The group led by Samar Pratap won the idea presentation award.



Innovative Idea Presentation in Progress

# Major Activity

## “Machine Drafting 2D”

On 12th December, the Department of Mechanical Engineering organized a major activity on Machine Drafting 2D. Approximately, 35 students participated in the event. Student made design drawing on Auto-CAD software/CATIA V5. Winners were Mr. Vipul Gupta 1st prize and Mr. Satyam Kumar 2nd prize.



The poster is for the IIMT College of Engineering 'Infinity 2K23' Tech Fest. It lists various events including Bridge KBTI, Presentation on Emerging Technology, Virtual KBC, BGM (Online Game), Online Gaming, Ideation, Business Plan Presentation, and Machine Drafting 2D. The event is scheduled for 12th December, 2023, starting at 09:00 AM. Registration is 50/- per participant. The event coordinator is Dr. Mahendra Sharma, HOD - IT. Contact information includes a phone number (73022 5450) and an email (infinityinfo@iimtdia.net). Logos for NAAC and NIRF are also present.



Drafting on AutoCAD Software/CATIA V5 in Progress

# Patent Publication “Innovation Idea Presentation”

Mr. Ashish Kumar Singh, Assistant Professor, the Department of Mechanical Engineering published two UK patents.

1. Robot Apparatus Container,
2. Robot Grasping and Positioning Device



## Department of Mechanical Engineering



### CHIEF EDITOR

**Prof. Krishna Kumar Karothiya**

Assistant Professor and HOD (Mechanical Engineering)

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