



# MORADABAD INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

## E-Newsletter

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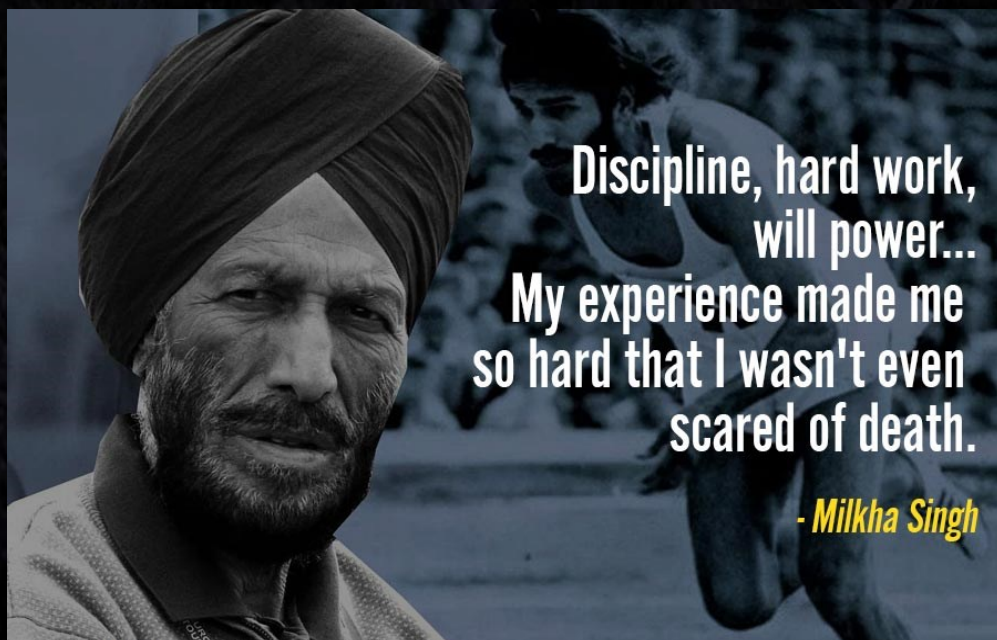
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#### Editorial Board

Dr. Munish Chhabra (Advisor)  
Mr. Prashant Singh (Editor)  
Mr. Devish Kumar (Student Editor)  
Mr. Aarav Sanket (Student Editor)



Congratulations and Kudos to all faculty members, staff members and students of Mechanical Engineering Department for showing dynamic team work and giving excellent performance during **NAAC PEER TEAM** visit on 24th & 25th March, 2021.

Dr. Munish Chhabra  
HOD, ME

### VISION

To develop competent and skilled Mechanical Engineers having moral values and ethics for the fulfilment of fast changing global needs.

### MISSION

- To nurture continuous enhancement in teaching learning process for imparting strong fundamental knowledge of core, engineering science, and interdisciplinary subjects to students.
- To provide state-of-the-art laboratories for providing hand-on experience of technology, and to provide platforms for leadership and overall personality development.
- To develop strong mentor-mentee relationship for the professional and personal growth of students and also to inculcate moral values and ethics for serving the society.

## In-house activities

### Guest lectures

- Mr. Mahesh Shinde** (GM, Head– Indoor Testing, Tata Motors Ltd.) delivered an online lecture on Artificial Intelligence in Industrial/ Automotive arena– challenges and opportunities on 16/01/2021.
- Mr. Gaurav Choudhary** (Business Development Manager, North & East India, Fronius India Pvt. Ltd.) delivered a Master class on Intelligent Revolution Technology in Welding on 02/02/2021
- Mr. Ravi Shanker Kochak** (V.Chairman, MechE South Asia Region) delivered an Expert lecture on Opportunities for Mechanical Engineers in Society on 28/04/2021.
- Mr. Krishna Prasad M** (Digital Manufacturing Expert, Siemens Centre of Excellence, NIT Kurukshetra) presented online expert talk on Digital Manufacturing on 11/06/2021.
- Mr. Dhanjay Bharadwaj** (Deputy Commandant, Technical, Indian Coast Guard) delivered a talk on 'Deciding what to do in your Life' on 12/01/2021.



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(Estd. 1996) **B.Tech. B.Pharm. D.Pharm. B.Arch. B.Voc. MBA**  
Ram Ganga Vihar Phase-2, Moradabad-244001, U.P. Phone: 0591-2452412, Fax: 0591-2452207

**DEPARTMENT OF MECHANICAL ENGINEERING**

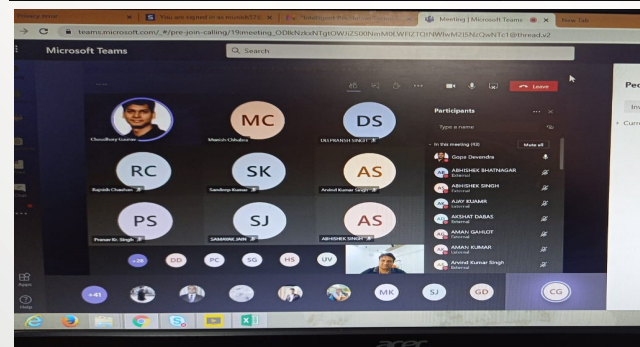
Organising Expert Talk  
in association with **IMECH E**

on  
**Artificial Intelligence in Industrial/Automotive arena – challenges and opportunities**

**Mr. Mahesh Shinde**  
GM, HEAD – Indoor Testing (ERC)  
**Tata Motors Limited**  
Pune (India)

Date: 16<sup>th</sup> January 2021 (Saturday)  
Time: 11:00 am  
Google meet: <https://meet.google.com/hrw-ndex-wyf>

**Organising Team**  
Mohd. Talha Khan Dr. Rohit Garg  
Ganesh kumar Sharma Dr. Munish Chhabra




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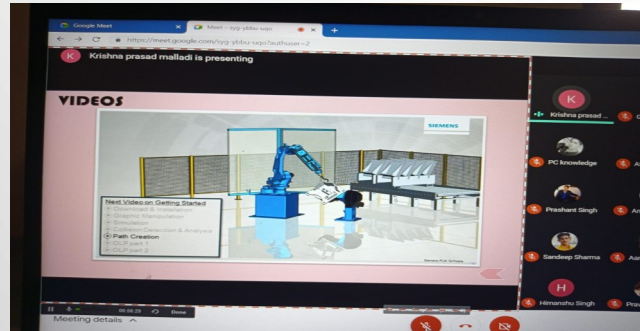

**DEPARTMENT OF MECHANICAL ENGINEERING**

Organising  
**Expert Talk on**  
*Opportunities for Mechanical Engineers in Society*

**Mr. Ravi Shanker Kochak**  
Vice Chairman, IMechE  
South Asia Region

**Institution of MECHANICAL ENGINEERS**

Date - 28<sup>th</sup> April 2021 (Wednesday)  
Time - 11:00 am  
@ Google-meet platform

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**DEPARTMENT OF MECHANICAL ENGINEERING**

Organising Talk on  
*Deciding what to do with your life*  
by Alumnus of MIT Moradabad (Mech. Engg. 2007-2011)

**Mr. Dhanajay Bhardwaj**  
Deputy Commandant, Technical  
Indian Cost Guard  
Andhra Pradesh

Date: 12<sup>th</sup> January 2021 (Tuesday)  
Time: 12:00 noon  
Venue : Block D


**Organising Team**  
Dr. Munish Chhabra Dr. Rohit Garg  
Mr. Ganesh Sharma Director, MIT



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**Department of Mechanical Engineering**  
In association with **Fronius**

Expert Talk on "Intelligent Revolution Technology in Welding: Solutions for Advance Manufacturing & Industry 4.0"  
02<sup>nd</sup> Feb 2021 (Tuesday); Time: 11:30 am  
@ Microsoft Teams meeting



**Expert Speaker**  
**Mr. Gaurav Choudhary**  
Business Development Manager  
North & East India, Fronius India Pvt. Ltd.

**Organising Team**  
Mr. Dalip Kumar Application Engineer Fronius India Pvt Ltd  
Dr. Munish Chhabra Mr. Ganesh Sharma Mr. Pavmender Kumar  
Dr. Rohit Garg Director MIT Moradabad

## • In-house activities

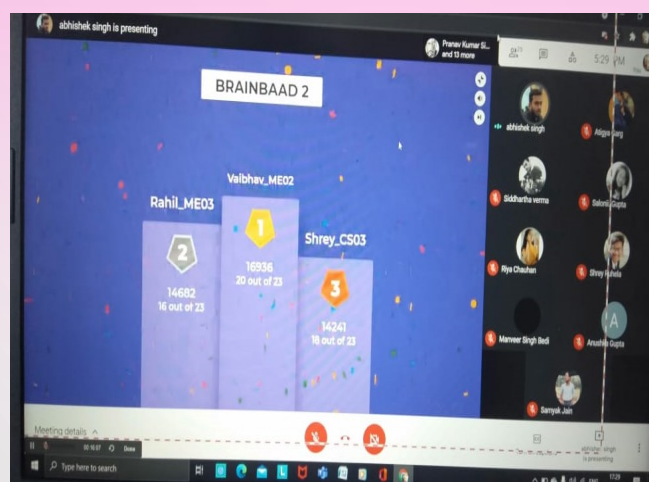
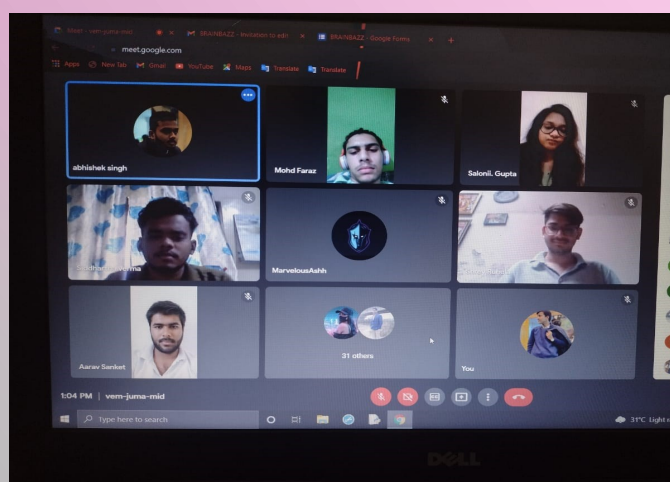
### Technical Training

- Mechanical Engineering Department organized a **training program** in designing software CAD 2D/3D to enhance the technical ability of students in March 2021.



### ◆ MESS Activities

- Event “**SPOTS BRAINGLE**” based on sports quiz was organized by MESS on 20th January 2021.
- MESS conducted an online event “**MIC PARADISE**” for the students of all branches from 13th to 15th April 2021. It was an Open Mic event which aimed to unveil the talent of participants.
- MESS organized a wonderful event “**Brain-Baaz**” on 13th June 2021. It was the quiz based event which aimed to brush up the General knowledge and Reasoning of the participants & also indulged them in some funny Cinephile questions. This event was conducted on Kahoot App.



## Faculty Accomplishments

### Publications

- **Mr. Arvind Kumar Singh**, published a paper entitled “Effect of extended geometry filled with and without phase change material on the thermal performance of solar air heater” in journal of Energy Storage, Elsevier.
- **Mr. Pravesh Chandra** has presented a paper entitled “Challenges and benefits of multi-effect distillation over other techniques for waste water treatment: a Review” at the conference on Advance in Thermal-Fluid Engineering (ATFE 2021) on 25th-26th March 2021, organized by Department of Mechanical Engineering, School of Technology, Pandit Deendayal Energy University Gandhinagar, Gujarat, India.
- **Mr. Arvind Kumar Singh**, published a Book Chapter titled “Thermal performance evaluation of modified solar water heater integrated with parabolic trough collector” in Nova Science Publisher.
- **Mr. Ganesh Kumar Sharma and Bhavya Nidhi Vats** published a paper entitled “A comparative study on mechanical and tribological properties of different grades of tool steels in Materials Today: Proceedings.

Students of Mechanical Engineering Department, Abdul Kabir and Mayank Anand designed and fabricated a HUF device for sanitisation and air purification.

**मुरादाबाद महानगर**

## हेप्पा एयर यूवीसी हर चीज करेगा सेनिटाइज

### अनुसंधान: एमआईटी के छात्रों ने मिलकर बनाया एचएयूएफ डिवाइस

अमृत विचार, मुरादाबाद

बोटक मैकेनिकल ब्रंच से अंतिम वर्ष के अब्दुल कबीर और तृतीय वर्ष के मयंक आनंद ने हेप्पा एयर यूवीसी सेनिटाइजिंग फिल्टर कैबिनेट तैयार किया है। इस यंत्र के जरिए मोबाइल फोन, आईपैड, लैपटॉप, फल, सब्जियां व अन्य कई चीजों को आसानी से सेनिटाइज किया जा सकेगा। साथ ही कमरे की प्रदूषित हवा को भी साफ करेगा। इससे हवा में मौजूद कोरोना वायरस के साथ ही प्रदूषित कण को भी यह नष्ट करेगा।

संक्रमण को रोकथाम के लिए सरकार के साथ ही अन्य संस्थाएं निरंतर प्रयास कर रही हैं। काफी विरोध के बाद वर्ष 2020 में नवंबर माह में कालेज खुले और अब स्कूलों में भी छात्र-छात्राओं ने आना शुरू कर दिया है। लेकिन अभिभावकों की चिंता बच्चों को लेकर बराबर बनी हुई है। ऐसे में कई अभिभावक अपने बच्चों को अभी भी स्कूल नहीं भेज रहे हैं। इस समस्या के निस्तारण के लिए एमआईटी में बोटक के छात्रों ने एक यंत्र तैयार किया है। जो दूषित हवा को स्वच्छ और आपके मोबाइल, लैपटॉप समेत हर चीज को सेनिटाइज करेगा। हेप्पा एयर डिवाइस की खासियत है कि यह कैबिनेट के अंदर रखी किसी भी चीज को यूवीसी का 360 डिग्री बढ़ा देता है। इस पर सेनिटाइजेशन की प्रक्रिया पूरी होने के बाद सिस्टम वीप साउंड करता है और स्लीप मोड में चला जाता है।

छात्रों ने एक महीने में तैयार किया यह यंत्र अब्दुल कबीर ने बताया कि उन्होंने अपने साथी मयंक के साथ इस यंत्र को महज एक महीने में तैयार किया है। इसमें मैकेनिकल इंजीनियरिंग के असिस्टेंट प्रोफेसर गणेश कुमार शर्मा का कदम-कदम पर छात्रों को सहायता और प्रेरणा मिली है। छात्रों की इस सफलता पर कालेज के निदेशक डा. रोहित गर्ग, सचिव आदर्श अग्रवाल और मैकेनिकल के विभागाध्यक्ष डा. मुनीष छावड़ा ने युवा वैज्ञानिकों के उज्ज्वल भविष्य की कामना की है।



एमआईटी इंस्टीट्यूट में सेनिटाइज करने वाले यंत्र के साथ बड़े छात्र, निदेशक और प्रोफेसर।

● फोटो: अमृत विचार

### NAAC PEER TEAM VISIT

Excellent performance given by the Faculty members, staff members and students of Mechanical Engineering Department during the NAAC PEER Team visit on 24th & 25th March, 2021.



## Beyond Academics

### Cultural Activities

- Sourabh Kumar and Abhishek Singh performed in MUSICANZA on 13th January 2021
- Abhishek Singh performed during NAAC Peer Team visit on 25th March 2021.
- Muskan Bhatnagar performed during NAAC Peer Team visit on 25th March 2021.



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