



MECHATROMA
A Quarterly Publication of Department of Mechanical Engineering
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From Editor's Desk

Dear readers,

The mechanical engineer field required understanding of core ideas of mechanics, dynamics thermodynamics, material science, structure analysis and electricity. In addition to these core principles, mechanical engineers use tool such as CAM, CAD and product life management to design and analyze manufacturing plants , Industrial Equipments and machinery , heating and cooling systems transport system , aircraft, war craft robotics , medical device , weapons and others. It is the branch engineering that involves design, production and operation of machinery

In the year 2022, these will be the top technology developments we should all be aware of. We have already figured out that all of these tech trends connect in some way.

As a result, we won't have to think about which tech trend is right for you because learning about these advancements would broaden our awareness and give us an advantage over the competition.

Understanding these technological developments would undoubtedly provide us with more excellent career and business prospects!

Prof. (Dr.) Ganesh Shirsath

Chief Editor& HOD
Dept. of Mechanical Engineering
Acting (HOD, ME)



Quote for Quarter

“Our Virtues and failure are inseparable like force and matter. When they separate man is no more .”**(Nikolo Tesla)**

Beginning of ISHRAE Chapter

- Department of Mechanical Engineering and Civil Engineering have started ISHRAE chapter of IIMT College of Engineering From January 2022. Twenty three students have joined the ISHRAE with two faculty coordinators each from Mechanical and Civil Department.
- ASHRAE India chapter of IIMT College of Engineering, Greater Noida. Has participated in 'Inter College Cricket Tournament' in PGDAV College, Lajpat Nagar, and New Delhi. The boys of IIMT College of Engineering beat Aligarh Muslim University by 33 runs to qualify for the semi-final round. IIMT Engineering boys bagged Bronze Medal in the tournament.

Research and Development

- ▶ Two Copy Rights Submitted by **Mr. Krishna Kumar Karothiya**
- ▶ One Prototype by **Mr. Dhruv Kumar**
- ▶ One funded Project submitted to SERB by **Dr. Ganesh Shirsath cost of Project 11 Lac.**

Research Papers

S.No.	Title of Paper	Name of Author(s)	Name of Journal	Volume, Issue, Page Numbers	Month and Year of Publication
1	Roles of Big Data, Data Science, Artificial Intelligence in Entrepreneurships	Archana Das Saswat Das Naveen Rathee	Advances in Mgt Practices	19 Jan 2022	Feb 2022
2	Performance of an air gap membrane distillation system and enhancement using a low cost surface modification	Dr.Ganesh Shirsath	International Journal of Green Energy	Submitted under review	Feb 2022
3	Role of Skilled worker in industry 4 to improve the quality of product in manufacturing phase in India	Dhruv Kumar	IJCRT	Accepted in UGC care	Feb 2022
4	IJCRT 216428	Nikhil Gupta and Dk Raman	IJCRT	Accepted in UGC Care	Feb 2022
5.	SCI-2108-5947	Suraj Bhan	Scientia Iranica	Now ONLINE	Feb 2021

International Conferences:

S.No.	Title of the Paper / Abstract	Name of Author(s)	Name of Conference	Venue of Conference	Duration	Month and Year
1	Estimation of Electricity generation from ocean wave energy for west coast of India	Krishna Kumar	ICETMIE 2022	Gurgaon Delhi/NCR	3 days	Feb 2022

Extension / Expert Lecture organized / delivered:

Details of extension / expert lectures organized by the department:

Sr. No.	Title/Topic	Name of Resource Person & Affiliation	Date & Venue	Remarks if any
1	Energy Efficiency : Alumini Talk	Ritesh Sing : Shinder electrical	29 th Jan 2022 Online	Conducted Successfully
2	Design Analysis and Optimization of Lens Mounting Techniques for Cryogenics applications	Sanjeev Kumar Jha	17 th Feb 2022	Planned activity

- We are pleased to inform all that Department of Mechanical Engineering in association with ISHRAE Student and ASHRAE is organizing cricket tournament On 05.03.2022 At PGDAV College Ring Road Lajpat Nagar New Delhi.



Industrial visit

- Department of Mechanical Engineering in association with ISHRAE Student and ASHRAE is organized Industrial Visits at Air Flow Company KASHNA Gr.NOIDA on 03 march 2022. Students have been saw and interact with air flow team .they learn how the different Ventilation Products, Air Terminal Products, Air Distribution Products through design and manufacture .



Students at air flow

- **Chief editor :**
Dr. Ganesh B. Shirsath, Associate Professor and HOD(ME)
- **Faculty member:**
1. **Mr. Krishna Kumar karothiya**
 2. **Mr. Suraj Bhan**
- **Students member:**
1. **Aman Kumar Jha**
 2. **Amir Ali**