

Volume 1, Issue 1, August 2021

# अविन्या=वृद्धि

*Insight to innovative growth*



**Editor-in-chief:**  
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**Editor:**  
Ms. Surabhi Lata

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**Maharaja Agrasen Institute of Technology**

## *The Head's Desk*

It is a matter of great pride and privilege for me to be associated with the Department of Mechanical Engineering for this 19th year. Year 2019-20 has been a year of accomplishments for the Department. We got Accreditation status from NBA. Three of the faculty members of the Department received their PhD degrees from reputed institutes viz. NIT Kurukshetra and DTU. The Department organized Faculty Development programme in which faculty of other institute from NCR participated. A course on SCILab organized by us with the help of NMEICT, IIT Bombay benefitted number of teachers of various schools of Delhi. A large number of faculty members and students presented their research papers in various conferences in Delhi, Pune and Hyderabad.

This year we organized industrial visits almost every fortnight for the students. Two national seminars, sponsored by CSIR and GGSIPU, respectively were organized by the Department. Number of lectures have been also arranged by ASHRAE society and SAE Collegiate Club of MAIT.



*Dr. Vaibhav Jain*

## *Department Vision*

To be a globally renowned department in Engineering and Technology, excelling in academics, research, innovation, and ethical values, while addressing the needs of industry and society through leadership in Mechanical Engineering.

## *Department Mission*

To prepare responsible and effective engineers for global challenges by:

1. Delivering quality education through cutting-edge technologies.
2. Fostering research, innovation, and the development of socially relevant technologies.
3. Upholding ethical values and promoting sustainable professional growth.

## *Program Educational Objectives*

**PEO 1:** Build on the capability to work in global organisations as individuals and as team members and leaders and to have competence to start, run and grow one's own business.

**PEO 2:** Develop the ability of modeling & analytical skills for problem-solving and decision making to deal with latest technological challenges in industry and Research.

**PEO 3:** Develop expertise in the design process of mechanical systems based on functionality, safety, standards, cost effectiveness, aesthetics and sustainability.

**PEO 4:** Inculcate ethical responsibilities and service towards peers, society and the nation.

**PEO 5:** Imbibe strong fundamental concepts of engineering and their application in the emerging fields of Engineering among students.

## **ASHRAE, Student Chapter MAIT**

**Membership Number: 8370536**



The ASHRAE Student Chapter MAIT was started in Feb 2019. Since its inception the ASHRAE Student Chapter MAIT has witnessed exponential growth. The society was started just with 15 members under the guidance of Dr. Vaibhav Jain and its strength has been increased to 71 student members. Some of the members graduated in year 2020 and currently has 53 student members. The students of this chapter have shown extreme compassion and exuberance in discharging all the tasks taken up by them with utmost dedication and hard work. The Chapter has grown to be stronger, compassionate, tech savvy and slated to give the better engineers of tomorrow. They are continued to indulge in new, green and sustainable technological research and generated more practical experience in our society and with that work smart towards developing new models in the field of HVAC&R. As it is evident from this report, they didn't let COVID-19 to stop them from doing their best and making the best use of the time at home and keep on expanding the chapter and its activities. ASHRAE is a world-renowned organization and they only want to uphold that name by constantly trying hard to be better than before.

***Dr. Vaibhav Jain***

### **Team JATAYU**

Founded in 2012 under the SAEINDIA Collegiate Club of MAIT, Team Jatayu is a dynamic group of engineering students dedicated to redefining automotive engineering. Specializing in All-Terrain Vehicles (ATVs), the team has excelled in prestigious competitions like Baja SAE India, Baja SAE USA, and Enduro Student India, showcasing technical mastery and resilience.

Team Jatayu thrives on collaboration, integrating academic knowledge with real-world applications. From advanced vehicle design to complex manufacturing, their ATVs are known for innovation, performance, and industry-standard excellence. Beyond competitions, the team fosters a culture of learning, mentoring juniors, and contributing to MAIT's legacy of automotive excellence. With a passion for pushing the boundaries of off-road engineering, Team Jatayu continues to inspire future engineers.

***Mr. R.C. Saini***

### **Aerostars**

Founded in 2021 under the Mechanical Department of MAIT, under the Mechanical Department of MAIT, Team Aerostars is a group of aviation enthusiasts advancing aerial technology through innovation and research in unmanned aerial vehicles (UAVs). Serving as a platform for knowledge sharing and collaboration, the team has transformed passion into expertise, excelling in competitions like SAE India ADDC, TechnoXian, and BML Munjal.

Committed to integrating engineering, technology, and sports, Aerostars empowers students to become creators rather than consumers. As we continue to reach new heights, our motto, "**In Thrust, We Trust,**" propels us forward.

***Dr. Kanchan Mudgil***

### **Faculty List**

- ❖ Dr. Vaibhav Jain
- ❖ Dr. Kanchan Mudgil
- ❖ Dr. Sidharth
- ❖ Mr. Anil Gupta
- ❖ Dr. Vipin Kr. Sharma

# Workshop on “Basics of 3D Printing and Its Applications”

Dr Vaibhav Jain, SBA organized one-day workshop on “**Basics of 3D Printing and its Applications**” on 20<sup>th</sup> March 2021. Mr Yogi Gandhi, CEO, US Institute of 3D Technology, US presented the basics, fundamentals and applications of 3D Printing. 3D printing overall has been developing rapidly in India, with the help of Make in India, a government initiative established to promote manufacturing in India.

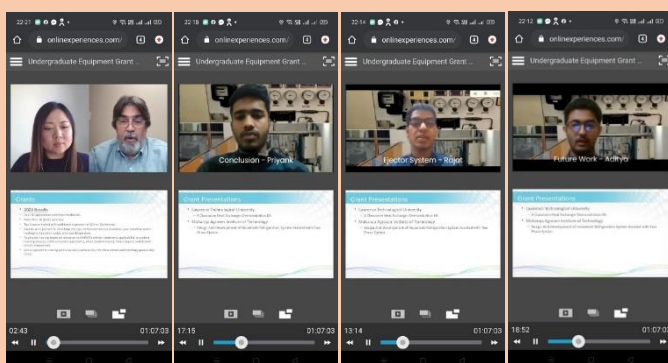


## Setty Family Foundation Applied Engineering Challenge 2021

A competition was organized by American Society of Heating Refrigeration and Air-Conditioning Engineers, USA which listed its winners to attend ASHRAE 2022 Winter Conference to be held at Las Vegas, Nevada from 29<sup>th</sup> January – 2<sup>nd</sup> February 2022. A team of two students from ASHRAE Student Chapter MAIT represented the college society at this event under the able guidance of Dr. Vaibhav Jain (Student Branch Advisor). **Team AKRA** with Akshat Goel and Dhruv Malhotra as its members achieved the “Rising Star” position and received free transportation, two nights lodging and \$ 100 expenses for attending the winter conference in 2022. They will be awarded at the ASHRAE Plenary.



## ASHRAE Winter Conference



The project titled ‘*Design and development of household refrigeration system assisted with a two-phase ejector*’ was selected for presentation in **ASHRAE Winter Conference** held during Feb 9-11, 2021 virtually at Chicago. **10 students of Chapter** (Aditya Rawat-8389316, Ajay K. Gupta-8382648, Akshat Goel-8370524, Anubhav Jain-8413060, Dhruv Malhotra-8382658, Piyush Fulara-8399131, Priyank Bansal-8382376, Rajat Jaiswal-8389314, Shivam Wahi-8383731, Sidhant Arya-8423914) along with Dr Vaibhav Jain attended.

# ASHRAE Student Chapter MAIT

## ASHRAE RAL Quiz Competition 2021

ASHRAE Regional-at-Large organized a Quiz Competition on 30<sup>th</sup> May 2021. Three students of ASHRAE Student Chapter MAIT (Shivam Wahi, Akshat Goel and Gulshan Kumar) participated in this RAL quiz competition representing the society, ASHRAE Student Chapter MAIT. The event commenced on the virtual platform. They have received \$50 and one year free ASHRAE membership.



## 2<sup>nd</sup> Annual Dr. Prem Jain Memorial Cricket Tournament

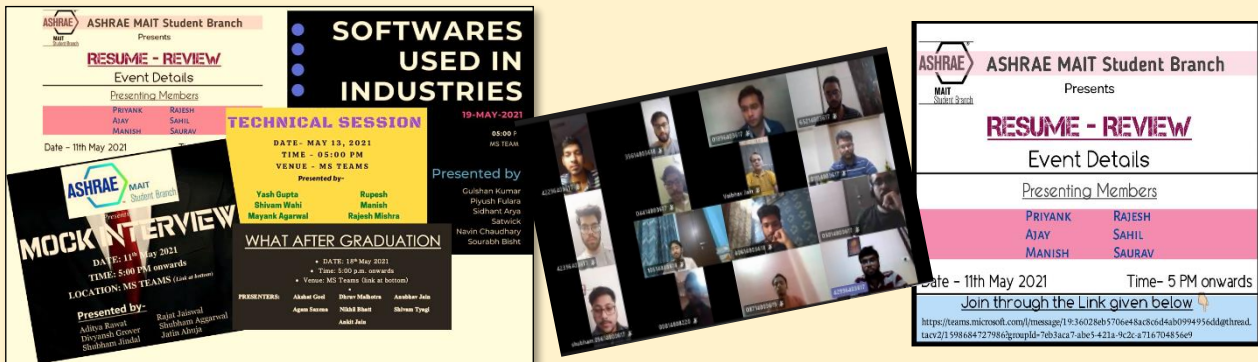
ASHRAE MAIT Chapter participated in the 2<sup>nd</sup> Annual Dr. Prem Jain Memorial Cricket Tournament organized by ASHRAE All India Chapter at PGDAV College, Delhi University, Delhi. A 12-member team participated and represented ASHRAE MAIT Chapter. The event took place on 27<sup>th</sup> March 2021 under the guidance of Dr. Vaibhav Jain (SBA). ASHRAE MAIT Chapter motivates students to learn and play simultaneously developing skills to excel in every sphere of life.

The invitation poster for the 2<sup>nd</sup> Annual Dr. Prem Jain Memorial Cricket Tournament is yellow and white. It features the ASHRAE India Chapter logo on the left. The text reads: "Invitation ASHRAE India Chapter INTER COLLEGE 2<sup>nd</sup> Dr. PREM JAIN MEMORIAL CRICKET TOURNAMENT". Below this is a portrait of Dr. Prem Jain (The First Chapter President). The text continues: "The ASHRAE India Chapter Would like to cordially invite you to our second edition of the Dr. Prem Jain Memorial Cricket Tournament. The event Will be held on Saturday March 27th, 2021 Starting at 9 am Venue: PGDAV College, Ring Road, Nehru Nagar, New Delhi - 110065". On the right, there are two photographs of the ASHRAE MAIT cricket team in blue uniforms, one holding a trophy.

## E – Activities amidst COVID – 19 pandemic

ASHRAE MAIT CHAPTER had been very active in the trying times of COVID-19 pandemic under the able guidance of Dr. Vaibhav Jain. The society had actively organized activities through virtual mode for spreading knowledge and awareness on the topics which are a need of the hour. The e-activities included "Resume Review"; "Technical Sessions"; "Mock Interview Sessions"; "What After Graduation" and "Software used in Industries". These were scheduled on 11<sup>th</sup> May 2021, 13<sup>th</sup> May 2021, 18<sup>th</sup> May 2021 and 19<sup>th</sup> May 2021. These activities reconnected all the members virtually to understand the need and clear their doubts through the exchange of ideas and suggestions of one another. It is one of the interactive path which satisfied the curiosity with the radiance of knowledge.

# Glimpses of E – Activities



1. 1<sup>st</sup> activity on the topic “Resume Review” on 11th May 2021 was organized in which we discussed how to make a strong resume and some Do’s and Don’ts.
2. The next activity was “Mock Interviews Sessions” on 12<sup>th</sup> May 2021 in which the group presented with all relevant information regarding interviews both in corporate sectors and research institutions.



3. Another activity was organized on "What After Grad" on 18<sup>th</sup> May 2021 which discussed the different opportunities after graduation whether it may be master's from India or abroad or getting a job or even entrepreneurship.
4. An activity on the topic ‘Software Used in Industries’ was organized on 19<sup>th</sup> May 2021. The purpose of this activity was to give an idea about the different soft wares which are being used in different industries in commercial mechanical processing, automation and R&D.



5. The next activity was organized on the topic ‘HVAC&R Technical Session’ on 20<sup>th</sup> May 2021. The purpose of this activity was to prepare the students for the future and inform them of primary contemporary concepts of the commercial HVAC&R industry of today.

# Drawing Competition for K-12

ASHRAE MAIT CHAPTER organized a Drawing-cum-Painting Competition as part of the K-12 (KG – 12th standard) activities for classes 5<sup>th</sup> – 10<sup>th</sup> with three different themes which were grouped for 5<sup>th</sup> & 6<sup>th</sup> standards, 7<sup>th</sup> & 8<sup>th</sup> standards, and 9<sup>th</sup> & 10<sup>th</sup> standards. The themes were Wind, Water and Sun Save Energy for the Long Run; Oxygen – Scarce or Abundant and Transformation in Cooling Techniques respectively. This activity aimed at inculcating basic technical values and information regarding ASHRAE and the world of HVAC&R (Heating, Ventilation, Air Conditioning and Refrigeration) in school students. An overwhelming response was received from across the cities in all the three categories. The result was declared in June 2021 and prize money was distributed to the winners. The cash prize of INR 1100, 750 and 500 was given to first, second and third place winners to encourage the students. Besides, participation certificate was given to all the students. It was an attempt to spread the knowledge of HVAC&R among school students which undoubtedly accomplished with the utmost enthusiasm.

**MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY**  
PSP Area, Sector-22, Rohini, Delhi-110085

**ASHRAE STUDENT CHAPTER MAIT**  
PRESENTS  
**DRAWING COMPETITION**  
K-12 Activity

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) is an American professional association seeking to advance heating, ventilation, air conditioning and refrigeration systems design and construction. ASHRAE has more than 57,000 members in more than 132 countries worldwide. ASHRAE Student Chapter MAIT was started in Feb 2019 and has witnessed exponential growth since its inception. The purpose of this K-12 activity is to advance the awareness, understanding, and appreciation of science, technology, engineering, and math (STEM) in the K-12 student population.

**Imagine. Draw. Paint. Create!**

**Themes**

- 5<sup>TH</sup> - 6<sup>TH</sup> CLASS - WIND WATER AND SUN SAVE ENERGY FOR THE LONG RUN
- 7<sup>TH</sup> - 8<sup>TH</sup> CLASS - OXYGEN- SCARCE OR ABUNDANT
- 9<sup>TH</sup> - 10<sup>TH</sup> CLASS - TRANSFORMATION IN COOLING TECHNIQUES

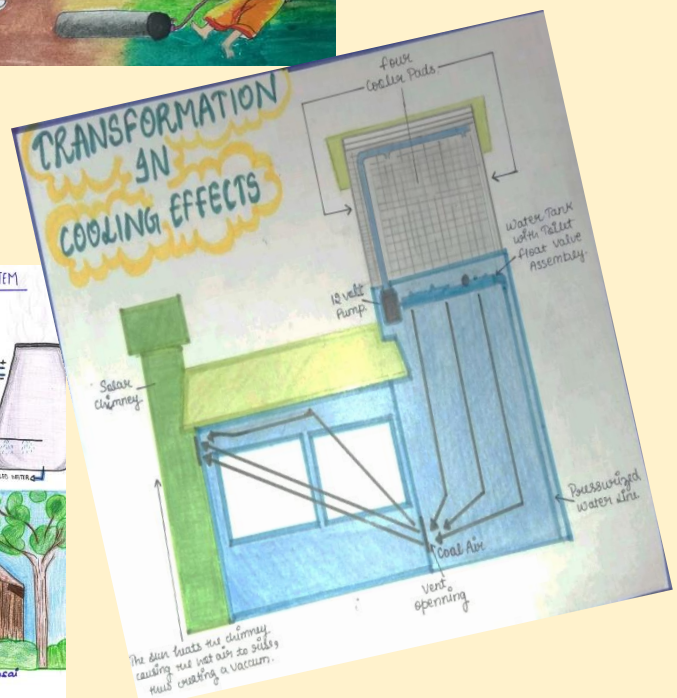
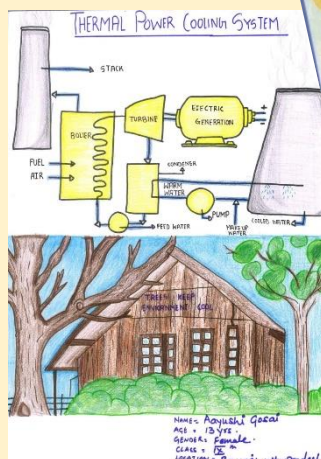
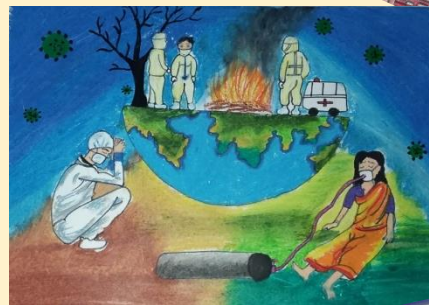
I PRIZE: Rs.1000  
II PRIZE: Rs.750  
III PRIZE: Rs.500

UPLOAD YOUR DRAWING BY  
**27 MAY 2021**  
AT GIVEN LINK  
FOR MORE DETAILS CONTACT

DHRUV -- 8800875208  
NEHA -- 7837142633  
VIBHOR -- 9711321328  
PURUSHOTAM -- 7836941791

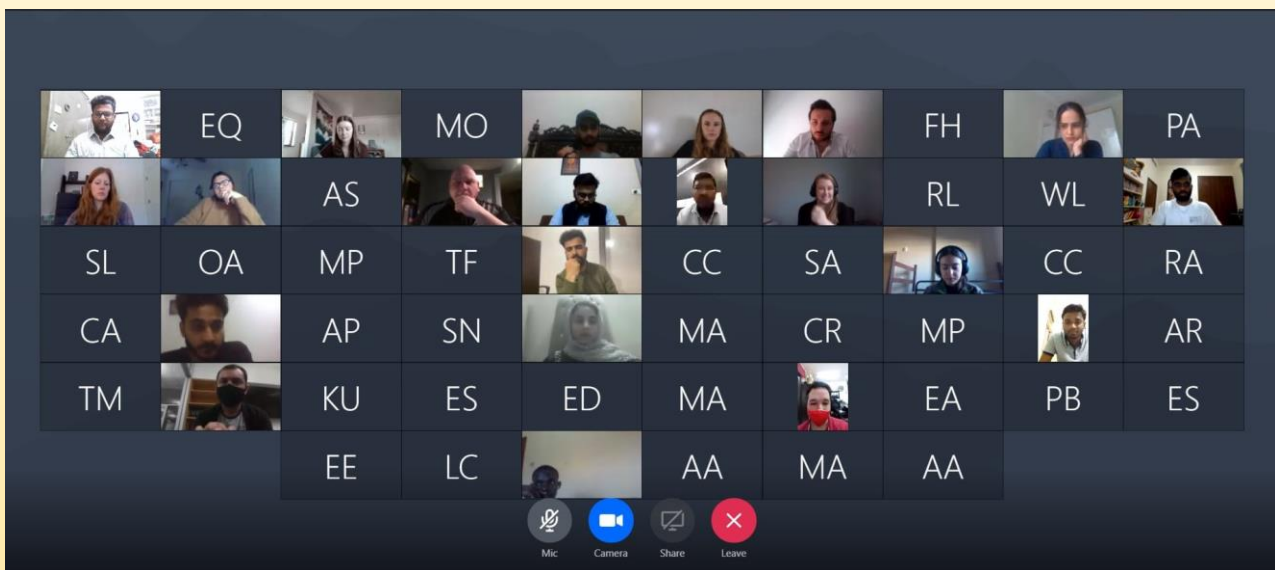
SUBMISSION LINK  
<https://tinyurl.com/ASHRAEMAIT>

NOTE: E-CERTIFICATE WILL BE GIVEN TO ALL PARTICIPANTS



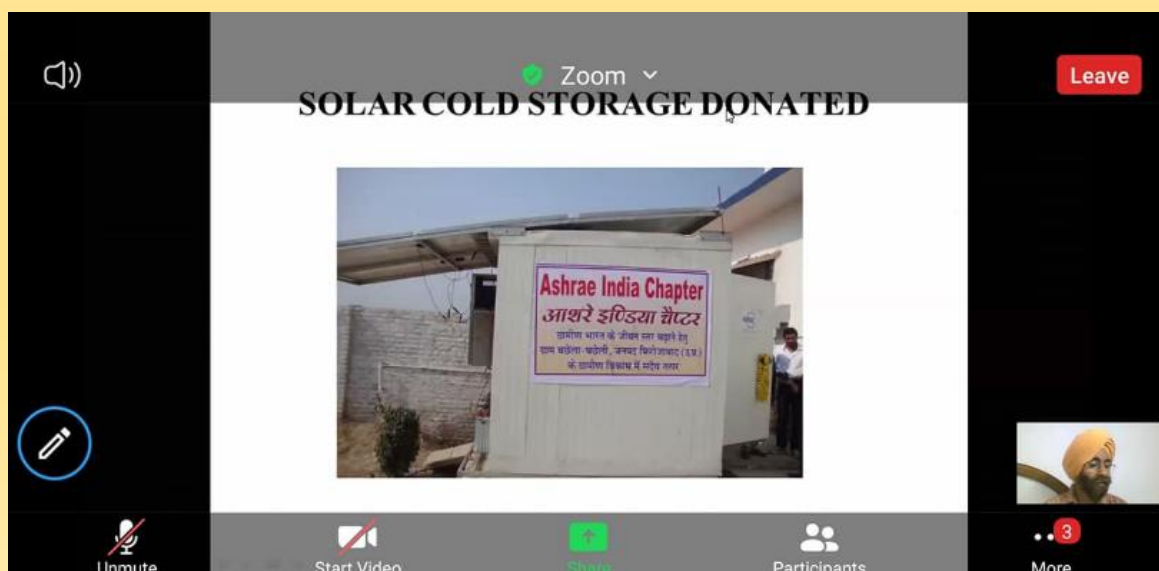
# ASHRAE Virtual Student Congress 2021

An ASHRAE student meeting was organized by ASHRAE, USA on 23<sup>rd</sup> March 2021-"ASHRAE Virtual Student Congress 2021". Two students of ASHRAE MAIT Chapter- Mr. Akshat Goel and Mr. Anubhav Jain were also nominated by our student branch advisor Dr. Vaibhav Jain to attend the meeting. The meeting was a success and we got to connect and interact with over 70-80 students from around the world from various ASHRAE student chapters in countries like Germany, France, Canada, USA, Malaysia, North Macedonia etc. Everyone shared their own ASHRAE experience and also contributed towards providing constructive criticism to the organizers regarding various ASHRAE activities and programs which they welcomed with open arms.



## Live Cold Storage Industrial Visit

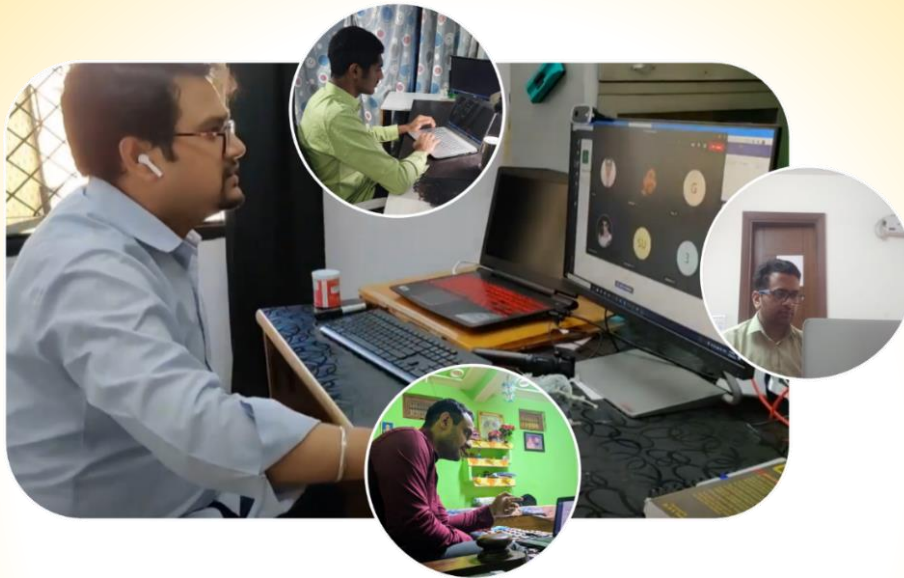
Live Cold Storage Industrial Visit held by AIC on 20<sup>th</sup> March 2021: A virtual industrial visit to Firozabad, Uttar Pradesh was organized by AIC in which students of ASHRAE MAIT Chapter enthusiastically participated and got to learn a lot about the National Horticulture Mission of GoI and the cold storage specifications donated to the facility by AIC.



# *ME, Mait @ International Conferences*

## **International Conference on Advanced Production and Industrial Engineering (ICAPIE-2021)**

Department of Mechanical Engineering, MAIT added another success feather to its cap by showing its presence at International Conference on Advanced Production and Industrial Engineering – 2021. Dr. Ramakant Rana was in the organizing technical committee of the conference which was organized by the Department of Design, DTU from 18<sup>th</sup> – 19<sup>th</sup> June 2021. Three students, under the guidance of Dr. Ramakant Rana, Mr. Anupam Thakur and Mr. Ashwni Goel, presented their research in the fields of “Production Engineering: Materials” and “Industrial Design: 3D Printing”. The peer reviewed full-length papers were accepted for publication in SCOPUS indexed “Springer” and “EVER Green”. The overall conference experience was outstanding and every presentation received commendable response by the jury members.



## **International Conference on Advance Research and Innovation (ICARI-2021)**

Eight students of ME department along with Dr. Vipin Kumar Sharma, attended the International Conference on Advance Research and Innovation on 30<sup>th</sup> January, 2021. The students, Mudit, Divyam Raj, and Ravi Mallik presented their research work, “Effect of Surface Textures on the Performance of Journal Bearing” and Naman, Shubham, Rachit, Shivang and Harshit presented their work “Fly ash as a potential reinforcement material for better mechanical properties of Aluminum” to the experts. The research work of the students was greatly appreciated by the experts. Dr. Vipin Kumar Sharma and Mr. Ramakant Rana, ME, MAIT, also coordinated the event – International Conference on Advance Research and Innovation (ICARI-2021) on 30<sup>th</sup> January 2021.

## **International Conference on Energy and Environment (ICEE 2021)**

International Conference on Energy and Environment (ICEE 2021) was organized by the Department of Mechanical Engineering and Department of Environmental Science, Jyothi Engineering College, Thrissur from 9<sup>th</sup> – 10<sup>th</sup> April 2021 on the virtual platform. Siddharth, B.Tech student under the guidance of Ms. Surabhi Lata presented his work at the conference in the fields of sustainability and nanotechnology. The conference aimed to showcase the state-of-the-art sustainable methodologies and technologies in Mechanical Engineering. It focused on new ideas and paved way to disseminate latest innovations and practices. The peer reviewed full length paper has been accepted for publication in Elsevier journal “Energy Nexus”. It facilitates opportunities to network, collaborate and exchange ideas with renowned leaders, scientists and researchers in Mechanical Engineering and Nanotechnology.

# Research Publications

- ❖ A. Goyal, A. F. Sherwani, and D. Tiwari, "Exergy, economic and environmental analysis of organic Rankine cycle based vapor compression refrigeration system," *Int. J. Refrig.*, Feb. 2021, doi: 10.1016/j.ijrefrig.2021.02.005.
- ❖ Chhimwal, M., Agrawal, S. and Kumar, G., "Sustainable Supply Chain Risk Mitigation: A mixed method approach", *International Journal of Intelligent Enterprise*, 2021.
- ❖ Satish Kumar, Arun Kumar Gupta, Pankaj Chandna, Gian Bhushan, Anish Kumar. (2021) A novel approach of GEF and GA for the optimization of multi-objective wire EDM process during the machining of DC53 super alloy. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering* 2, pages 095440892199291.
- ❖ V K Sharma, R C Singh, Rajiv Chaudhary, Effect of fly ash and graphite addition on the tribological behavior of aluminium composites, *Surf. Topogr.: Metrol. Prop.* 9 025027.
- ❖ Sharma, G. and Kumar, P., 2021. An Analysis of Causal Relationships among the Factors Affecting the Performance of a Service Organization. *SAGE Open*, 11(1), p.2158244021999394.
- ❖ Piu Jain, Suresh Garg & Gayatry Kansal (2021) A TISM approach for the analysis of enablers in implementing mass customization in Indian manufacturing units, *Production Planning & Control*, DOI: 10.1080/09537287.2021.1900616.
- ❖ K. Raheja, A. Jain, C. Sharma, R. Rana, R. Lal, Comparative Study of Tribological Parameters of 3D Printed ABS and PLA Materials, in: 2021: pp. 95–108. [https://doi.org/10.1007/978-981-15-8542-5\\_9](https://doi.org/10.1007/978-981-15-8542-5_9).
- ❖ M.K. Chaudhary, A. Pathak, R. Goyal, R. Rana, V.K. Sharma, Fabrication of Aluminium 6082–B4C–Aloe Vera Metal Matrix Composite with Ultrasonic Machine Using Mechanical Stirrer, in: 2021: pp. 221–229. [https://doi.org/10.1007/978-981-15-8542-5\\_19](https://doi.org/10.1007/978-981-15-8542-5_19).
- ❖ Thakur, Anupam, and Ramakant Rana. "Traffic Noise Modelling Considering Traffic Compositions at Roundabouts." In *Advances in Manufacturing and Industrial Engineering*, pp. 657-672. Springer, Singapore, 2021.
- ❖ Bansal, Sushant, Ayush Saraf, Ramakant Rana, and Roop Lal. "Effect of Picosecond Laser Texture Surface on Tribological Properties on High-Chromium Steel Under Non-lubricated Conditions." In *Advances in Manufacturing and Industrial Engineering*, pp. 257-267. Springer, Singapore, 2021.
- ❖ Gupta, Anmol, Surbhi Lata, Ramakant Rana, and Roop Lal. "A Statistical Approach for Overcut and Burr Minimization During Drilling of Stir-Casted MgO Reinforced Aluminium Composite." In *Advances in Manufacturing and Industrial Engineering*, pp. 269-283. Springer, Singapore, 2021.
- ❖ R. Rana, R.S. Walia, Q. Murtaza, Characterization and Parametric Optimization of Performance Parameters of DLC-Coated Tungsten Carbide (WC) Tool Using TOPSIS, *Coatings*. 11 (2021) 760. <https://doi.org/10.3390/coatings11070760>.
- ❖ Vipin Kumar Sharma, Sri Kant Rana, Roop Lal and Ramakant Rana, "Wear and Residual Stress Analysis of Waste Sea Shell and B4C Particles Reinforced Green Hybrid Aluminium Metal Composite", *Journal of Engg. Research ICARI Special Issue*, 2021, pp. 215-224, DOI: <https://doi.org/10.36909/jer.ICARI.15317>.
- ❖ Performance assessment of triangular Obstacles mounted Solar Air Heater Using Taguchi Method <https://doi.org/10.36909/jer.ICARI.15321>
- ❖ R. Rana, L. Krishnia, R.S. Walia, Q. Murtaza, CVD Diamond Coated Tungsten Carbide (WC) Tool Inserts, *J. Eng. Res.* (2021). <https://doi.org/10.36909/jer.ICARI.15319>.
- ❖ Vikas Kumar, Gulshan Sachdeva, Sandeep Tiwari, Parinam Anuradha and Vaibhav Jain (2021), 'An Experimental Investigation on Vapor Compression Refrigeration System Cascaded with Ejector Refrigeration System', *International Journal of Air-Conditioning and Refrigeration*, Vol. No. 29 pp. 03, 2150028. DOI: <https://doi.org/10.1142/S2010132521500280>.

# ME, MAIT @ ANVESHANA 2021: Science and Engineering Fair

ANVESHANA: Science and engineering fair is organized by Agastya International foundation every year in four regions across India i.e. Delhi-NCR, Hyderabad, Mumbai and Bangalore. It bridges the gap between engineering students and high school students and developing spark, creativity in education for a better tomorrow in terms of society, environment and technology.



A team of two MAIT students participated in ANVESHANA, Delhi-NCR 2020 and was among the 35 team selected for the next round from 200+ projects ideas submitted. The final year B.Tech ME students, Dev and Ankit Kumar under the guidance of Ms. Surabhi Lata presented the project idea “Plastic Constraint by Plastics” in the theme “Waste Management”. They mentored two school students from 8<sup>th</sup> standard and participated in the competition on virtual platform which was held from 8<sup>th</sup> – 15<sup>th</sup> March 2021. It was a great learning experience for school students as well as engineering students where new ideas came along with engineering concepts.

## 4<sup>th</sup> Research Excellence Awards Function

Mr. Sumit Joshi, faculty of Department of Mechanical Engineering received research excellence award at a 4<sup>th</sup> Research Excellence Awards function organized at Delhi Technological University on 15<sup>th</sup> February 2021 for his commendable performance in the area of his research. Such felicitation motivates and inspires young researchers to work more for the society and innovate new paths for a more greener Earth.



## BAJA SAEINDIA 2021



Mr. R. C. Saini received certificate of participation for guiding the students during the BAJA SAEINDIA 2021 event held at Chitkara University from 21<sup>st</sup> April 2021 to 25<sup>th</sup> April 2021.

# *Individual Achievements*

- ✚ Mr. Madhukar Chhimwal Received “Swachhta Saarthi Fellowship (SSF) 2021” through Waste to Wealth Mission spearheaded by The Office of the Principal Scientific Adviser to the Government of India, housed at Invest India as a recognition to pursue research work during Doctorate of Philosophy (PhD) .
- ✚ Mr. Madhukar Chhimwal successfully completed the AICTE approved National Initiative for Technical Teachers Training (NITTTR) modules (Module 1 to Module 4).
- ✚ Dr. Vipin Kumar Sharma and Mr. Ramakant Rana, we're the organizing secretary at International Conference on Advance Research and Innovation on 30th January 2021, at MIET, Meerut, India.
- ✚ Dr Vipin Kumar Sharma participated in ATAL training and learning program on 'Computational Fluid Dynamics' and ' Green Manufacturing' at Centurion University and Punjab Engineering College during June-July 2021.
- ✚ Dr. Vipin Kumar Sharma contributed as session chair at the International Conference on Advance Research and Innovation, 30th January 2021.
- ✚ Dr. Vipin Kumar Sharma selected as Primary Evaluator by the Ministry of Education’s Innovation Cell and AICTE, for the Toycathon-2021.
- ✚ Mr. Ramakant Rana participated in ATAL training and learning program on 'Computational Fluid Dynamics' and ' Green Manufacturing' at Centurion University and Punjab Engineering College during June-July 2021.
- ✚ Mr Akshat Goel, Mr Shivam Wahi and Mr Gulshan Kumar (Students ME) received the opportunity to present ASHRAE India Chapter in RAL Quiz Competition held on 30 May 2021. Students won prize money of US \$50 (to each) and one year free ASHRAE membership.
- ✚ Mr Akshat Goel, and Mr Dhruv Malhotra (Students ME) acheived STAR RISING position in Setty Family Foundation Applied Engineering Challenge 2021 and received opportunity for attending ASHRAE 2022 Winter Conference scheduled in Las Vegas, Nevada, January 29–February 2, 2022.



*Always walk through life as if  
you have something new to  
learn and you will.*

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**Department of Mechanical Engineering**

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