



Indira Gandhi Delhi Technical University For Women

Department of Mechanical and Automation Engineering

New Letter - February 2024



Our Motto: Women Education, Women Enlightenment, Women Empowerment

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OUR MISSION

>>> The Department strives for excellence in education to develop highly skilled world class work force in area of Mechanical and Automation Engineering and target research themes in emerging areas with the aim to produce leaders among the Engineers.

>>> The Mechanical & Automation Engineering Department strives to impart quality education to the students by enhancing their skills to make them globally competitive.

To develop and maintain state-of-the-art laboratories with equipment and software to foster visualization of known Art and Knowledge.

To create research facilities in order to provide the students and the faculty with the opportunities to create, apply and disseminate knowledge.

To develop linkages with the Industry and educational institutions in order to maintain excellence in teaching and research.

To maintain a supportive environment that encourages and rewards teamwork and inculcates good human values in students to make them responsible and respectable nation builders.

OUR VISSION

HOD'S MESSAGE



Prof. Manoj Soni

“The roots of education are bitter, but the fruit is sweet.” – Aristotle

It feels great to be part of one of the Top Ranking Emerging Engineering Institutes of Technology in India and it is an honor to hold the post of HoD-Department of Mechanical and Automation Engineering, Indira Gandhi Delhi Technical University for Women, Delhi.

The Department of Mechanical and Automation Engineering at IGDTUW offers B Tech in ‘Mechanical and Automation Engineering’, Dual Degree in ‘Mechanical and Automation Engineering and Management’, M Tech in ‘Robotics and Artificial Intelligence’, and a Ph.D.

The department has a team of dedicated faculty and staff members who work around the clock to nurture the students so that they become team leaders and make a niche for themselves. Our students come from various states across the country and thus, contribute to the diversity of the department. Students are very hard-working and passionate about fulfilling their dreams.

Students work and participate enthusiastically in competitions in India and Abroad in the areas of Electric Vehicles, Solar Powered Vehicles, Super Mileage Vehicle, Drone development and flying, etc. Many students also participate in hackathons and contribute to research publications in the fields of Big Data, Data Analytics, Machine Learning, Artificial Intelligence, etc.

The Department has a very vibrant environment with the best equipment in labs and a state-of-the-art Centre of Excellence in Advanced Mechatronics Systems. The students have access to the latest CAD software, CNC Machines, Industrial Robots, Industrial Automation systems, the Industrial Internet of Things, 3D printers apart from conventional machines and lab equipment, and a growing Research infrastructure. There is a very positive culture and a supportive environment. Best of the companies visit universities for recruitment and offer handsome internships and job offers to the students. Our faculty and research scholars are actively involved in research in both conventional and new areas of Mechanical Engineering. Our major thrust areas in research include- Artificial Intelligence and Machine learning in Advanced Manufacturing (Industry 4.0 Technologies), Composites, Tribology, Advanced Mechanics, Thermal Engineering, Alternate Fuels etc.

I invite you to explore life within the department, including academics, research, and other outreach activities.

COURSES OFFERED

Undergraduate

Course Name	Specialization
Bachelor of Technology	Mechanical and Automation Engineering
B.Tech. + MBA (Dual Degree)	Mechanical and Automation Engineering

Postgraduate

Course Name	Specialization
Master of Technology	Robotics and Artificial Intelligence

PhD

Course Name	Specialization
Doctor of Philosophy	Machine Design Engineering, Tribology Fluid Film Bearing, FEM Computation Engineering, Vibration.
	Alternate Fuels in IC Engines, Composite Material, Robotics & Automation, Manufacturing & Automation
	Production and Automation Engineering, Prosthetics, Thermal Science and Engineering, Thermal Power Plant.



FACULTY PROFILE



Prof Manoj Soni,
(Professor & HOD MAE)



Prof Arvind Jayant
(Professor)



**Prof Nathiram
Chauhan**
(Professor)



Prof O.K. Singh
(Professor)



Dr Subhash Singh,
Associate Professor and
T&P Officer (MAE)



Dr Deepti Chhabra,
Assistant Professor and
PRO



Dr Vivek Chawla,
Assistant Professor



Dr Pooja Bhati
(Assiatnt Professor &
DRC Coordinator)



Dr Shipra Aggarwal,
Assistant Professor



Dr Pankaj Tomar
(Assistant Professor)



Dr Deepti Jaiswal
(Assistant Professor)



Dr Tina Choudhary,
Assistant Professor
(Contractual)



Mr Urfi Khan,
Assistant Professor
(Contractual)



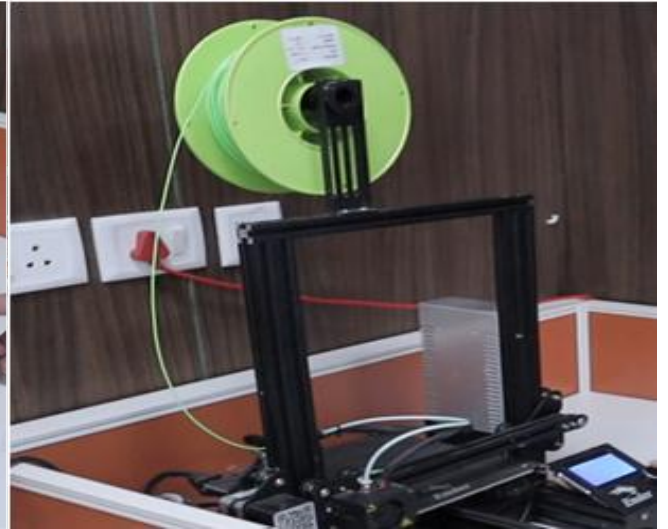
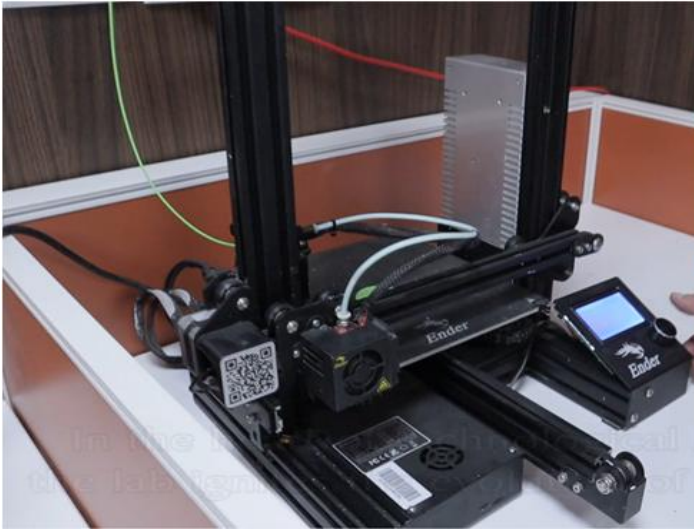
LAB FACILITIES



Drones Lab



Industrial CNC Lab



3D Printing Lab



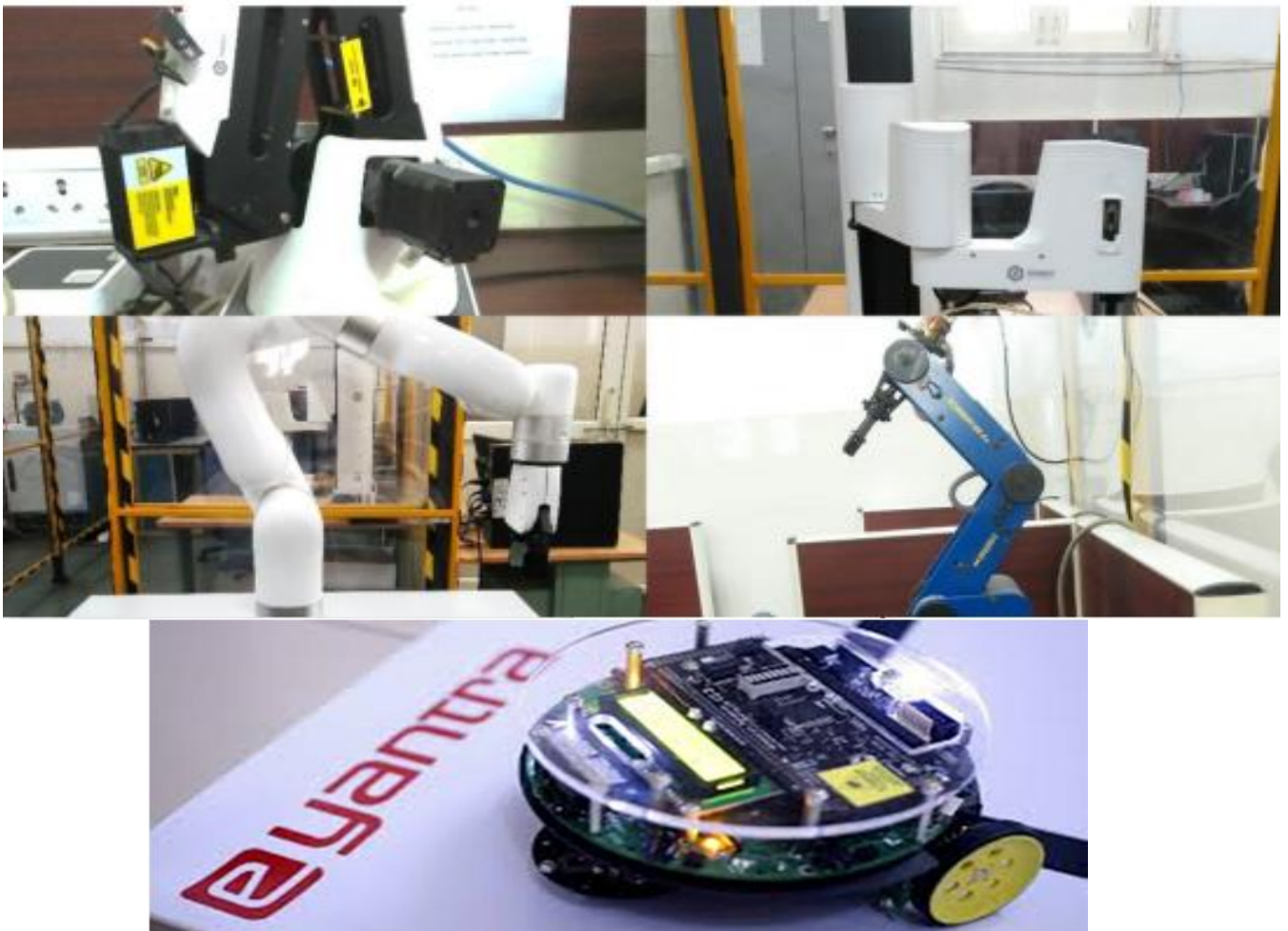
CATIA – Design & Analysis Lab



Conference Room



IOT Lab



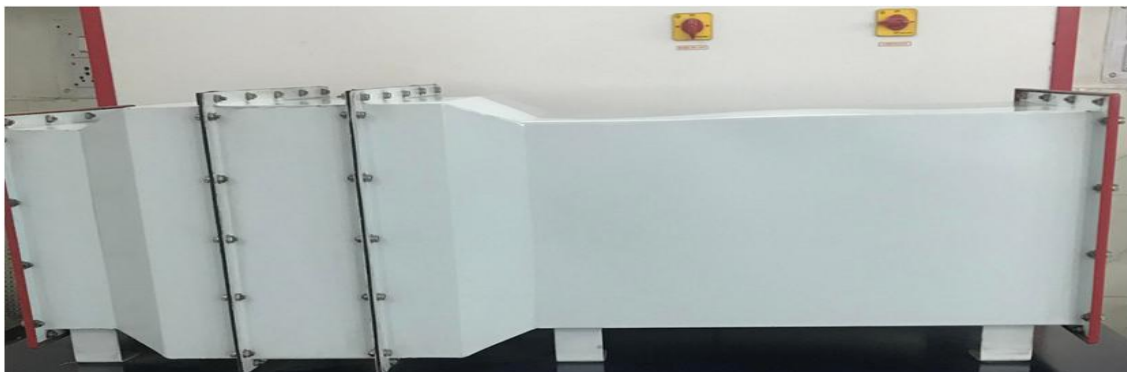
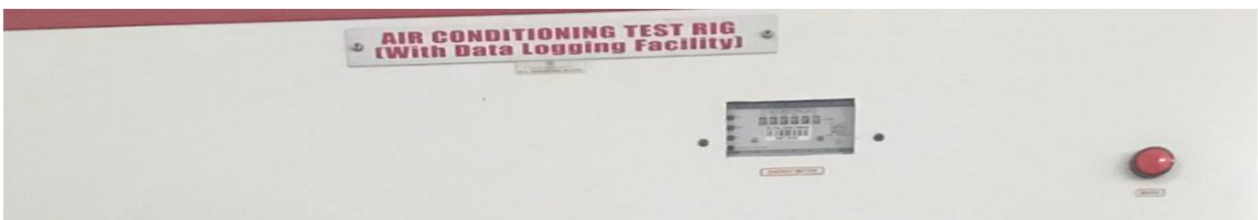
Robot Lab



Materials Lab

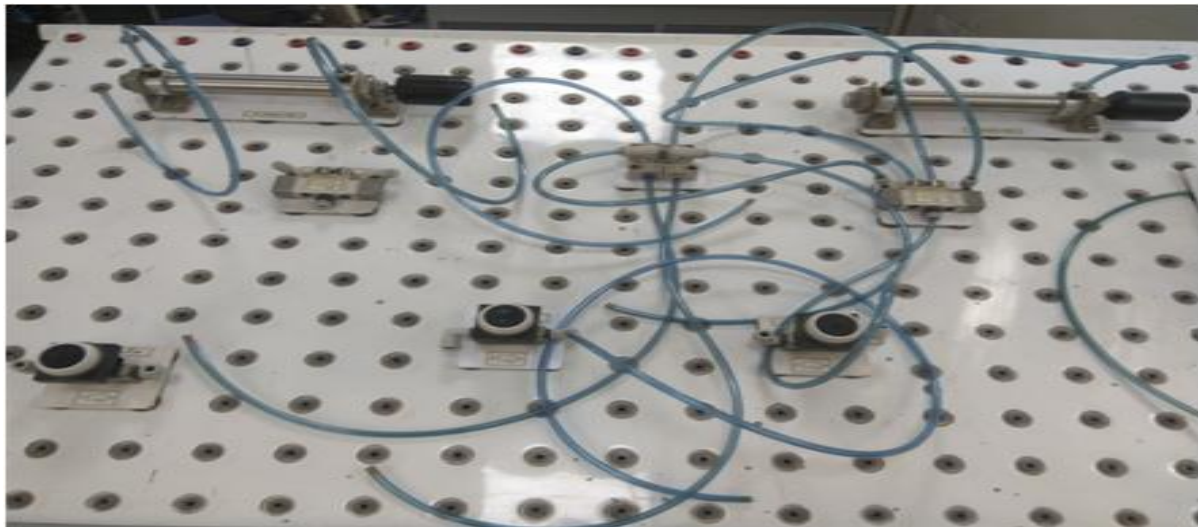


Thermal Lab





Refrigeration and Air Conditioning Lab



Pneumatics Lab



Fluid Machines Lab



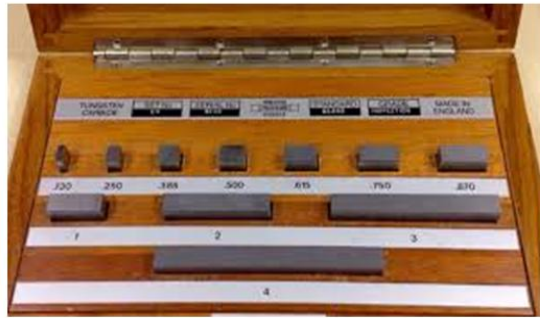
Automobile Lab



Heat Transfer Lab



Manufacturing Machines Lab



Measurement & Metrology Lab



TOM, Engineering Mechanics Lab

STUDENT ACTIVITIES & PARTICIPATION



Team Shakti- Participate in E Bike Competitions



Team Aeous- Participate in Formula Car Competitions



Team Panthera- Participate in Shell Eco Marathon



Team Stellaris - Participate in Solar Electric Vehicle

>>> SHAGATA CHANDA, CHARU NIGAM, AIMAN ZAKIR, URJA KOHLI
INDIA MOBILE CONGRESS 2023
27TH OCTOBER



STUDENT ACHIEVEMENTS

»»» **URJA KOHLI**
YOUNGEST DELEGATE, THE HARVARD PROJECT FOR ASIAN AND
INTERNATIONAL RELATIONS- HPAIR 2023
22-26TH AUGUST 2023



>>> **FUTURE AWARD , TEAM SHAKTI**
SIEP E-BIKE CHAMPIONSHIP
IES UNIVERSITY, BHOPAL
 24TH-28TH JANUARY 2024



>>> **AYUSHI NEGI**
BAGGED GOLD MEDAL IN VOLLEYBALL TOURNAMENT, AAHVAAN'23
DELHI TECHNOLOGICAL UNIVERSITY- DTU
 DATE-6TH-8TH APRIL 2023



>>> **URJA KOHLI**
TEAM LEAD, HPAIR IMPACT CHALLENGE
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY- HKUST
 25TH AUGUST



>>> **DRISHTI KIRAR**
1ST POSITION , OBJECTION OVERRULED BY OPTICA
 8 NOVEMBER 2023





AYUSHI NEGI

**BAGGED GOLD MEDAL IN VOLLEYBALL TOURNAMENT
VARCHAS'23(SPORTS FEST), IIT JODHPUR**

3RD-5TH NOVEMBER 2023



URJA KOHLI

WINNER, IDEASTORM, IGDTUW

16TH FEB 2023



ALISHA DHINGIA
WINNER, CAD DESIGNATHON
NOVEMBER 2023



PARI CHAURASIA
RUNNER UP, CAD DESIGNATHON
NOVEMBER 2023



URJA KOHLI
YOUNGEST SPEAKER, FOUNDER'S WALK
20TH JUNE 2023



POOJA
DIGITAL INDIA ALT HACK, IIT DELHI
19-26TH JUNE 2023



SEMINARS ORGANIZED

SOFT ROBOTICS FOR PROSTHETIC DEVICE SESSION

5TH JULY 2023



>>> ORGANISERS: SHURUTI SINGH & KRITIKA GANDHI UNDER DR. POOJA BHATI SESSION ON 3D PRINTING BY 3D CURIOSITY

12 JAN 2024





Industry Interaction Seminar organized on Design and Issues in in Electric Vehicles, Faculty Coordinator- Prof Manoj Soni



Industry Interaction Seminar organized on 3D Printing of Humanoid Robot. Faculty Coordinator- Prof Manoj Soni

SOCIETIES & ACHIEVEMENTS

Year	Name of the award/ medal	Team / Individual	Inter-university / state / National / International	Name of the Event	Name of the student	Date of event/competition(DD-MM-YYYY)
2021	Girl's Wanna Code Mentorship	Individual	National	Flipkart	Bhanupriya Sharma	15-Feb-2021 to 15-Jun-2021
2021	1. Secured AIR 3 in Quiz 2. Nominated for Innovative Concept Award under FB2021 (Combustion Vehicle) Business Plan and Presentation event	Team - Aious Formula Student	National	Formula Bharat 2021	Khushi Rajput	23/01/2021-21/02/2021
2021	Generation Google scholarship	Individual	International	Generation Google scholar	Sakshi Gupta	May 2021
2021	Girl's Wanna Code Mentorship	Individual	National	Flipkart GWC 3.0	Sakshi Gupta	15-Feb-2021 to 15-Jun-2021
2021	Qualified for Final Startup Track	Team	National	Cisco ThingQbator	Shruti Sinha	April 2021-Ongoing
Year	Name of the award/ medal	Team / Individual	Inter-university / state / National / International	Name of the Event	Name of the student	Date of event/competition(DD-MM-YYYY)
2021	1. Secured AIR 3 in Quiz 2. Nominated for Innovative Concept Award under FB2021 (Combustion Vehicle) Business Plan and Presentation event	Team- Aious Formula Student	National	Formula Bharat 2021	Surbhi Singh	February 2021
2021	1. Secured AIR 3 in Quiz 2. Nominated for Innovative Concept Award under FB2021 (Combustion Vehicle) Business Plan and Presentation event	Team- Aious Formula Student	National	Formula Bharat 2021	Vaishnavi Rout	February 2021
2021	Microsoft Engage 2021 Mentorship Program	Individual	National	Microsoft Engage	Aastha Chaudhary	June 2021 to July 2021
2021	LeanIN-Hacks	Team	Inter-university	Hackathon	Aastha Chaudhary	February 27-28
2021	Qualified for Final Startup Track	Team	National	Cisco ThingQbator	Aastha Chaudhary	April 2021-Ongoing
Year	Name of the award/ medal	Team / Individual	Inter-university / state / National / International	Name of the Event	Name of the student	Date of event/competition(DD-MM-YYYY)
2021	Microsoft Engage 2021 Mentorship Program	Individual	National	Microsoft Engage	Shruti Sinha	June 2021 to July 2021
2021	Qualified for Final Startup Track	Team	National	Cisco ThingQbator	Anushka Jain	April 2021-Ongoing
2021	Microsoft Engage 2021 Mentorship Program	Individual	National	Microsoft Engage	Anushka Jain	June 2021 to July 2021
2021	Grace Hopper Celebration Scholarship	Individual	International	AnitaB.Org	Anushka Jain	27/09/21 to 01/10/21
2021	Winner- echoAR Track	Team	National	Cicada 3301:Reinvented (Hackathon)	Anushka Jain	28/05/21 to 30/05/21

Year	Name of the award/ medal	Team / Individual	Inter-university / state / National / International	Name of the student	Date of event/competition(DD-MM-YYYY)
2021	Nominated for unique Business Plan and Presentation	Team(Aious formula Student)	National	Chhavi Bhadana	Feburary 2021
2021	1. Secured AIR 3 in Quiz 2. Nominated for Innovative Concept Award under FB2021 (Combustion Vehicle) Business Plan and Presentation event	Team(Aious formula Student)	National	Rinki gupta	Feburary 2021
2021	Microsoft Engage 2021 Mentorship Program	Individual	National	Perna Khera	June 2021- July 2021
2021	Microsoft Engage 2021 Mentorship Program	Individual	National	Bhanupriya Sharma	June 2021- July 2021
2021	Grace Hopper Celebration Scholarship	Individual	International	Bhanupriya Sharma	27-Sept-2021 to 01-Oct-2021

Year	Name of the award/ medal	Team / Individual	Inter-university / state / National / International	Name of the Event	Name of the student	Date of event/competition(DD-MM-YYYY)
2021	Secured AIR 68 in preliminary rounds out of over 200+ teams.	Team Yantriki	National	BAJA SAEINDIA PRELIMINARY ROUND 2021	Prashasti Tiwari	12th Decmber 2020
2021	Secured AIR 68 in preliminary rounds out of over 200+ teams	Team Yantriki	National	BAJA SAEINDIA PRELIMINARY ROUND 2021	Anshika Saini	12th Decmber 2020
2021	Secured AIR 68 in preliminary rounds out of over 200+ teams	Team Yantriki	National	BAJA SAEINDIA PRELIMINARY ROUND 2021	Anmol Singh	12th Decmber 2020
2021	Secured AIR 68 in preliminary rounds out of over 200+ teams	Team Yantriki	National	BAJA SAEINDIA PRELIMINARY ROUND 2021	Samridhi Sharma	12th Decmber 2020
2021	Secured AIR 68 in preliminary rounds out of over 200+ teams	Team Yantriki	National	BAJA SAEINDIA PRELIMINARY ROUND 2021	Khushmeet Kaur	12th Decmber 2020
2021	Secured AIR 68 in preliminary rounds out of over 200+ teams	Team Yantriki	National	BAJA SAEINDIA PRELIMINARY ROUND 2021	Shaheen	12th Decmber 2020

PLACEMENT HIGHLIGHTS

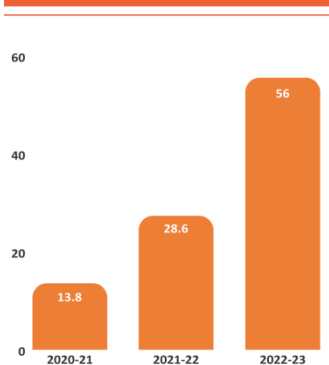
2022-23

The placement season for the graduating class of 2023 began in earnest in July 2022. Currently, 57 B.Tech (MAE) final-year students have full time offers from reputed firms. It is mentioned with immense pride that 21 students have bagged 6-month internship offers from tech giants like Amazon, Flipkart, American Express, etc. The academic year 20-23 had seen a notable increase in the number of new companies compared to prior years. The highest CTC 50 LPA was offered by Adobe and the average CTC was 14.35 LPA for the graduating batch of 2023. It is a matter of tremendous pride to share that in comparison to that last year 2021-22, there has been a rise in average CTC from Rs. 8.73 LPA. to Rs. 14.35 LPA. There has also been a rise from 38 FTE offers in 2021-22 to 57 FTE offers in 2022- 23. In addition to that, 21 final year students were selected for the 6-month internship at some top-notch companies. The MAE Training and Placement Cell helps the students by regularly organizing industry interaction activities and competitions to stay abreast of current industrial trends and gain key technical skills to become proficient engineers in their fields.

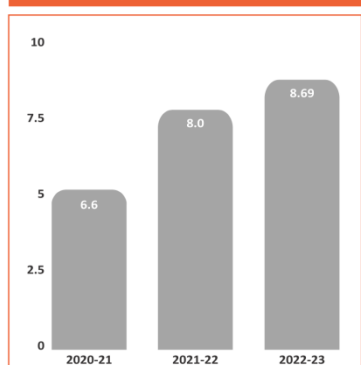
Leading in every domain, Mechanical girls have once again proved their excellence, bagged opportunities and giving notable results. One final year student was part of the Cisco women in cyber security boost campaign 2.0. Team Yantriki participated in Aravali Terrain Vehicle Championship virtual season 2 and were AIR 1 overall winner, AIR 1 in CAE, Cost Report, DFMEA Report. 3 students were selected for Pratibha - The Eaton Excellence Award in the year 2022.15 pre-final year students were selected as a mentee in the Microsoft engage program throughout the country, while one pre-final year student was selected for the Harvard WeCode Scholarship. One student was among the top finalists of the Amex Makeathon and received an intern offer at American Express. Students participated in Scholarship and hackathons like GHC Scholar for the year 2022, Smart India Hackathon, millennium fellowship program.



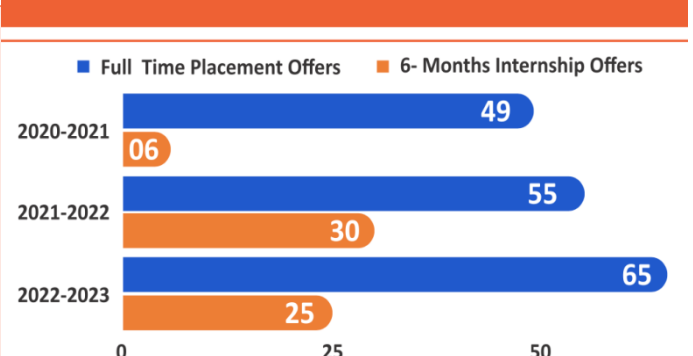
HIGHEST PACKAGE IN CTC (LPA) IN EACH YEAR



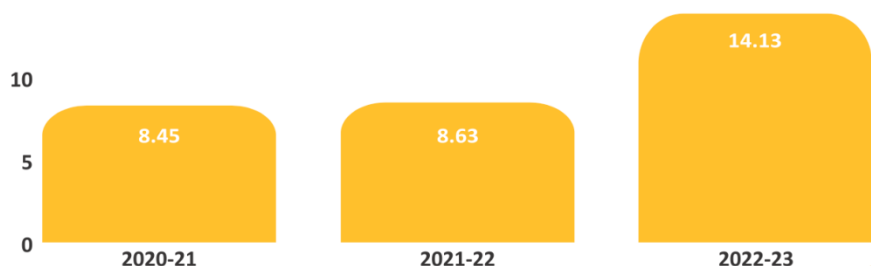
MEDIAN PACKAGE OFFERED IN CTC (LPA) OVER THE YEARS



NUMBER OF OFFERS OVER THE YEARS



AVERAGE PACKAGE OVER THE YEARS (LPA)



FACULTY ACHIEVEMENTS

- Prof. Nathi Ram Chauhan organized an International Conference on Future of Engineering Systems and Engineering (FEST 2021) jointly with FIST, New Delhi in MAE Department in the F.Y. 2021-during 18-19 DEC 21.
- Department of Production & Industrial Engineering of Punjab Engineering College Chandigarh organized an International Conference on Industrial and Manufacturing Systems (CIMS-2021) in association with MAE Department of IGDTUW, coordinated by Prof. Nathi Ram Chauhan, during 11-11-2021 to 13-11-2021.
- Prof. Nathi Ram Chauhan chaired a technical session in International Conference on Industrial and Manufacturing Systems (CIMS-2021) during 11-13 November 2021 in Department of Production & Industrial Engineering of Punjab Engineering College Chandigarh.
- Prof. Nathi Ram Chauhan chaired a technical session in ITME- International Conference on Innovation Technologies in Mechanical Engineering during 17-18 December 2021 in Mechanical Engineering Department at KIET Group of Institutions, Ghaziabad.
- Prof Nathi Ram Chauhan presented a paper on 'Investigation of Roughened Hybrid Hole-Entry Journal Bearing with Couple Stress Lubricant' in International Conference on Industrial and Manufacturing Systems (CIMS-2021) during 11-13 November 2021 in Department of Production & Industrial Engineering of Punjab Engineering College Chandigarh.
- Best Paper Presentation award won by Ms. Priyanka Singh, PhD scholar under the guidance of Prof. Nathi Ram Chauhan on 'Effect of the Addition of Ductile Phase on Mechanical Properties of Alumina/nano SiC Ceramic Composite' in International Conference on Industrial and Manufacturing Systems (CIMS-2021) in association of MAE Department of IGDTUW during 11-11-2021 to 13-11-2021.
- An expert lecture delivered by Prof Nathi Ram Chauhan on "Hydraulic and Pneumatic Systems Simulation using MATLAB" in Short Term Course-Application of MATLAB in Engineering Sciences and Research (AMESR-2021) during 27-12-2021 to 31-12-2021 in Mechanical Engineering Department at Sant Longowal Institute of Engineering and Technology, Punjab.
- An expert lecture delivered by Prof Nathi Ram Chauhan on "Role of Robotics in Automation" in Two Days National Workshop Emerging Technologies for Redesigning Future during 04-02-2022 to 05-02-2022 in Mechanical Engineering Department at Maharana Pratap University of Agricultural University Technology and Engineering, Udaipur, Rajasthan.
- Invited talk delivered by Prof Nathi Ram Chauhan on "Application of Robotics and Artificial Intelligence in Industries" Multidisciplinary Conference on Engineering, Science & Technology-2022 (MCEST-2022) on 28th May 2022 at Sahyadri College of Engineering & Management, Mangalore, Karnataka.
- Prof. Manoj Soni filed patent titled Wearable sleeping lumbar pillow, class 2-01 (Corset) on 11/24/2021.
- Dr. Deepti Chhabra was granted patent titled Block Chain and Machine learning implementation strategies for identification of novel corona virus on 10/28/2021
- Dr Shipra Aggarwal organized an event for Rajyapal Vikas KeRajdoot for the Quarter Jan-2022 to March. 2022
- Dr Shipra Aggarwal organized an event for Azadi Ke Amrit Mahotsav for the Quarter Jan-2022 to March. 2022.
- Dr. Deepti Chhabra organized an Expert Lectures on Industry 4.0 and its Major Components on 19.1.2022 by Prof. Abid Haleem (Jamia) and on Sustainable Operations on 17.2.2022 by VimarTondolo(Brazil)
- Dr. Deepti Chhabra coordinated Expert lectures on Skin Care, Precautions and Post Covid 19 Measures by Dr. Arvind Kaul on 12.4.2022, on Public Health by Dr Mukul Jain on 13.4.2022, on Bone and Joint Health by Dr Manish Kumar Saini on 18.4.2022 and on Coping with Mental Health Post Covid 19 impact by Dr Shivani Sadhoo on 25.4.2022.
- Dr. Deepti Chhabra organized a quiz for students on PM Garib Kalyan Anna Yojana on Good Governance. Almost 40students participated the quiz and have won Certificates from the Ministry of Electronics and Information Technology, Government of India.

FACULTY ACHIEVEMENTS

1. Prof. <u>Nathi Ram Chauhan</u>	Singh, Sakshi, and <u>Nathi Ram Chauhan</u> . "Optimization of adhesive wear behaviour of B4C/AZ91D-Mg composites." <i>Advances in Materials and Processing Technologies</i> (2022): 1-15.	Journal	2022	SCIE/Scopus
2.	Singh S., Chauhan N.R., "Influence of B4C on Microstructural, Mechanical and Wear Properties of Mg-based Composite by Two-Step Stir Casting" <i>Indian Journal of Engineering & Materials Sciences</i> Vol. 28, April 2021 pp. 189-197	Journal	2021	SCI/Scopus
3	Singh, Sakshi, and <u>Nathi Ram Chauhan</u> . "Experimental Investigation of Mechanical and Thermal Study of Mg/B4C/Cr Hybrid Composites." <i>Indian Journal of Pure & Applied Physics (IJPAP)</i> 59.5 (2021): 379-385.	Journal	2021	SCI/Scopus
4	Singh S., Chauhan N.R., "Empirical Optimization of Corrosion Rate for Mg/Cr Composites" Vol. 28, May 2021, pp. 363-368 <i>IJCT</i> .	Journal	2021	SCI/Scopus
5	Singh S., Chauhan N.R., "Study of Abrasive Wear and Abrasion Heating of Mg and Al matrix Composites Reinforced with B4C and Cr", <i>JSIR</i> .	Journal	2021	SCI/Scopus
6	<u>Aasiya Parveen</u> , <u>Nathi Ram Chauhan</u> and <u>MohdSubaib</u> . "Influence of Process Parameters and Reinforcements on <u>Aluminium Hybrid Composites</u> Developed by Powder Metallurgy Process", <i>Physics of metals and metallography</i> , Springer.	Journal	2021	SCI/Scopus
7	Parveen, <u>Aasiya</u> , <u>Nathi Ram Chauhan</u> , and <u>MohdSubaib</u> . "Influence of compaction pressure and Si3N4/ZrO2 reinforcement on the properties of <u>aluminium hybrid composites</u> ." <i>Advances in Materials and Processing Technologies</i> (2021): 1-13.	Journal	2021	SCIE/Scopus
8	Parveen, <u>Aasiya</u> , et al. "Fabrication and analysis of two-wheeler connecting rod for <u>aluminium hybrid composites</u> using finite element method." <i>Engineering Research Express</i> , Vol 3, Number 3 (2021).	Journal	2021	Scopus
9	Singh S., Chauhan N.R. (2021) Optimization of Hardness Properties of Magnesium-Based Composites by Using Taguchi Method. In: Muzammil M., Chandra A., <u>Kankar P.K.</u> , Kumar H. (eds) <i>Recent Advances in Mechanical</i>	CONFERENCE PROCEEDINGS	2021	SCOPUS

10	Saxena ND, Chauhan NR, “Physio-chemical study of traditional lubricant SAE 20W40 and virgin coconut oil using TiO2 nano-additives”, <i>Materials Today: Proceedings</i> , Elsevier, 2021.	CONFERENCE PROCEEDINGS	2021	SCOPUS	
11	Singh P, Chauhan NR, “Design, fabrication and performance analysis of mini ball miller”, <i>Materials Today; Proceedings</i> , Elsevier, 2021	CONFERENCE PROCEEDINGS	2021	SCOPUS	
12	Singh S, Chauhan NR, “Probabilistic optimization of Mg-based composite aircraft frame- a topological analysis”, <i>Materials Today; Proceedings</i> , Elsevier, 2021	CONFERENCE PROCEEDINGS	2021	SCOPUS	
13	Verma, S., Vashishth, S., Chauhan, S., Chauhan, N. R., & Saraswat, M. (2021, April). Exergy and energy analysis of 4-stroke single cylinder CI engine using Pongamia-ethanol-butanol fuel blends. In <i>Journal of Physics: Conference Series</i> (Vol. 1854, No. 1, p. 012038). IOP Publishing.	CONFERENCE PROCEEDINGS	2021	SCOPUS	
14	Kaur, U., Khan, U., Chauhan, N. R., & Mukherjee, S. (2021). Collision detection and inverse dynamics control of KUKA LBR IIWA robot. <i>International Journal of Mechatronics and Automation</i> , 8(1), 9-21.	Journal	2021	SCOPUS	
15	Chandra, D., & Chauhan, N. R. (2021). Surface protective coatings on Mg alloys—A review. <i>Materials Today: Proceedings</i> .	CONFERENCE PROCEEDINGS	2021	SCOPUS	
16	Sharma P., Chauhan N.R., Saraswat M. (2021) Competency of Alcoholic Fuels as Diesel Blends. In: Das L.M., Sharma A., Hagos F.Y., Tiwari S. (eds) Recent Trends in Thermal Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-16-3428-4_13	CONFERENCE PROCEEDINGS	2021	SCOPUS	
17. Prof. Manoj Soni	Simulation and kinematic analysis of KUKA KR5 Arc robot	IOP Conference Series: Materials Science and Engineering	2021	Conference	Proceeding, Scopus
18	Direct metal laser sintering of Ti6Al4V alloy for patient-specific temporomandibular joint prosthesis and implant	<i>Materials Today Proceeding</i> , Elsevier	2021	Conference	Proceeding, Scopus
19	Selection of Automotive Brake Material Using Different MCDM Techniques and Their Comparisons	Journal of Engineering Science and Technology Review,	18-Dec-21	Journal	Scopus

17. Prof .Manoj Soni	Simulation and kinematic analysis of KUKA KR5 Arc robot	IOP Conference Series: Materials Science and Engineering	2021	Conference Proceeding, Scopus
18	Direct metal laser sintering of Ti6Al4V alloy for patient-specific temporo mandibular joint prosthesis and implant	<i>Materials Today Proceeding, Elsevier</i>	2021	Conference Proceeding, Scopus
19	Selection of Automotive Brake Material Using Different MCDM Techniques and Their Comparisons	Journal of Engineering Science and Technology Review,	2021	Journal
20	Application of Combined Compromise Solution Method for Material Selection	Book Chapter - Springer	Jun-21	Conference Proceeding, Scopus
21	Effects of Chemical Treatment on Mechanical Properties of Various Natural Fiber Reinforced Composite: A Review	Book Chapter - Springer proceedings	Jun-21	Conference Proceeding, Scopus
22.Dr. O. K. Singh	Comparative analysis and optimization of thermodynamic behavior of combined gas-steam power plant using Grey-Taguchi and artificial neural network.	In Journal of Thermal Engineering.	2021	journal ESCI/SCOPUS/Web of Sciences
23	Development of a solar cooking system suitable for indoor cooking and its exergy and enviro-economic analyses	Solar energy (impact factor 5.742)	2021	
24	Second Law-Based Assessment of Combined Cycle Power Plant,	International Journal of Productivity and Performance Management	2021	journal ESCI
25. Dr. Deepti Chabra	Developing IT enabled performance monitoring system for green logistics: A case Study Paradigms and Hybrid Intelligent Advanced Computational	Advanced Computational Paradigms and Hybrid Intelligent Computing	July, 2021	Journal-ESCI and Scopus
26. Dr. Shipra Agarwal	Real-Time Health Monitoring System of Soldiers Using IoT	Computing	2021	Journal
27	Health Monitoring System for Soldiers	Journal	2021	Journal Springer
28.Dr.Vivek Chawla	Banana leaf fiber-based green composite: An explicit review report.	Materials Today: Proceedings	2021	Scopus
29	A systematic review on sustainable green fibre reinforced composite and their analytical models.	Materials Today: Proceedings	2021	Proceeding, Scopus
30	Evaluation of green operations management by fuzzy analytical hierarchy process.	Materials Today: Proceedings	2021	Proceeding, Scopus

31	A sustainable process for conversion of petrol engine vehicle to battery electric vehicle: A case study.		Materials Today: Proceedings		2021	Proceeding, Scopus	
32	An explicit literature review on bearing materials and their defect detection techniques.		Materials Today: Proceedings		2021	Proceeding, Scopus	
33	Evaluation of fiber volume fraction of kenaf-coir-epoxy based green composite by finite element analysis.		Materials Today: Proceedings		2021	Proceeding, Scopus	
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