

Graphic Era
Deemed to be
University
DEHRADUN



यांत्रिकी एर

Even Semester 2022-23



Institute:

Vision:

We visualize Graphic Era (Deemed to be University) as an internationally recognized, enquiry driven, ethically engaged diverse community, whose members work collaboratively for positive transformation in the world, through leadership in teaching, research and action.

Mission:

The mission of the university is to promote learning in true spirit and offer knowledge and skills in order to succeed as professionals. The university aims to distinguish itself as a diverse, socially responsible learning community with high-quality scholarship and academic rigour.

Department:

Vision:

The vision of the department is to be regionally, nationally and internationally recognized in providing Mechanical Engineering education, leading to well qualified Engineers who are Creative, Ethical Environmentally friendly, Self-esteemed and successful in Research.

Mission:

The mission of the department is to educate, prepare, inspire, and mentor students to excel as professionals at both the undergraduate and post graduate levels for leadership roles in the fields of mechanical engineering and to conduct research for the benefit of society.

M1- To imparting quality education to the students and enhancing their skills to make them globally competitive engineers.

M2- To maintaining vital, state-of-the-art research facilities to improve its students and faculty with opportunities to create, interpret, apply and disseminate knowledge.

M3- To develop linkages with world class R&D organization and educational institutions in India and abroad for excellence in teaching, research and consultancy practices.

M4- To produce ethical, motivated and competent engineers capable of solving current problems and envisaging and developing new technologies beneficial to society.

1.2 State the Program Educational Objectives (PEOs) (5)

The Program Educational Objectives (PEOs) for Mechanical Engineering students typically center around the broad goals that the program seeks to achieve for its graduates. There are four commonly stated objectives:

PEO1: To enable students to apply core principles and emerging technologies in Mechanical Engineering to address modern industry and societal challenges.

PEO2: To equip students with a strong foundation in core principles and emerging technologies, enabling them to solve complex engineering problems and pursue advanced studies, research, and innovation in Mechanical Engineering.

PEO3: To foster communication, ethics, and leadership in students, enabling them to excel in emerging Mechanical Engineering trends and contribute to industry, society, and science globally.

PEO4: To foster lifelong learning, innovation-driven entrepreneurship, and research in emerging technologies, with a focus on ethics and environmental sustainability for societal benefit.

Accolade 1.0: A Grand Extravaganza of Talent and Creativity

Date: 23rd to 25th March 2023



The much-anticipated Auto Expo event "Accolade 1.0" took place from 23rd to 25th March 2023 at Graphic Era Deemed to be University. The event spanned three exciting days filled with various offline competitions and workshops, showcasing the talents and creativity of students across different domains.

Event Overview:

"Accolade 1.0" was a vibrant and diverse event that offered a plethora of opportunities for students to participate and showcase their skills in a wide range of activities. The event featured both competitive and non-competitive events, fostering a sense of camaraderie and healthy competition among participants.

Day 1:

The first day commenced with various creative competitions, including Craft, Mehendi, Rangoli, and Painting. Students displayed their artistic flair and craftsmanship, transforming ordinary materials into mesmerizing works of art. The day also witnessed enthralling Gully Cricket matches, where students demonstrated their sporting prowess and team spirit.

Day 2:

The second day of "Accolade 1.0" kicked off with a thrilling Treasure Hunt, where participants navigated through clues and challenges to unearth hidden treasures. The excitement continued with the intense Tug of War competition, where teams put their strength and determination to the test. In the gaming realm, students showcased their virtual prowess in the Valorant and FIFA 2023 tournaments.

Day 3:

The final day of the event was dedicated to the students' cultural talents. A series of cultural competitions, including dance, music, drama, and poetry recitation, enthralled the audience with captivating performances. Moreover, the "Best out of Waste" competition showcased the students' innovative approach to repurposing discarded materials into useful and artistic creations. The Robotics Workshop provided a platform for participants to delve into the world of automation and robotics, while the Domain Exploration Workshop allowed students to gain insights into various professional domains.



Highlights and Participation:

"Accolade 1.0" witnessed enthusiastic participation from students across various disciplines, making the event an unforgettable celebration of talent and creativity. The participants displayed remarkable creativity, passion, and

dedication throughout the competitions and workshops, leaving a lasting impression on the audience and judges.



abreast of the latest developments and cutting-edge technologies in the ever-evolving automobile industry.



Conclusion:

"Accolade 1.0" was a grand success and provided an excellent platform for students to showcase their skills, talents, and creativity. The event not only promoted healthy competition and camaraderie among participants but also offered opportunities for learning and exploration through workshops. We extend our gratitude to all the participants, organizers, and sponsors who made "Accolade 1.0" a remarkable event.

The event's success is a testament to the vibrant and talented student community at Graphic Era Deemed to be University. We look forward to organizing more such enriching and engaging events in the future, fostering the spirit of innovation, creativity, and camaraderie among our students.

Event Success and Sponsorship:

The success of "Automesse" was made possible by the generous sponsorship of Rs 1 Lakh from ONGC IDT. Their support not only boosted the event but also demonstrated their commitment to fostering innovation and development in the automotive sector.

Automesse: The Auto Exposition

Date: 6th April 2023

Introduction:

The much-awaited Auto Expo event, "Automesse," was successfully held on 6th April 2023 at Graphic Era Deemed to be University. The primary objective behind organizing this event was to provide an excellent platform for students to stay



Distinguished Guests:

The event was graced by esteemed personalities, including the Chief Guest, Ms. Anuradha Pant, the Transport Tech Officer,

and the Guest of Honor, Mr. G.A.V.S. Prasad, Director IDT, ONGC. Their presence added grandeur to the occasion, and their insightful speeches inspired the attendees, especially the budding engineers, to dream big and strive for excellence in the field of automobiles.

Exhibition Highlights:

The "Automesse" showcased a wide array of vehicles from prominent automobile companies, providing a hands-on experience of the latest models and innovations. The participating companies and their representatives were as follows:



1- Hero:

Vehicles: Xoom, Magnus, Xpulse, Xtreme

Representatives: Himanshu (Sales Executive), Mayur (EV), Bhuran

2- Hyundai:

Vehicles: New Verna, Kona Electric

Representatives: Azeem Khan, Mohit Kumar, Danish Ali, Suraj Kumar

3- Kia:

Vehicles: Seltos, Sonnet

Representatives: Goldy, Akhil, Sumit

4- Jeep:

Vehicles: Meridian, Compass

Representatives: Sunjay Sharma (GM), Ritesh Rana, Sikandar, Vijay

5- Nissan:

Vehicle: Magnite (Top Model)

Representative: Mr. Sunjay (GM)

6- Harley Davidson:

Vehicles: 3 Bikes

Representatives: 2 Persons

7- Divine Honda:

Vehicle: Honda City

Representatives: Pankaj Kumar, Shani Chhetri

8- Maruti:

Vehicles: Baleno, Grand Vitara

Representatives: Aashish (Showroom Manager), B. S. Negi, Yogesh

9- Suzuki:

Vehicles: Strom 250, Evenis 125cc

Representative: 1 Person and 1 Standee

10- KTM:

Vehicles: Duke 390, RC 200, Chetak EV

Representatives: Amit and Aakash

11- Okinawa:

Vehicles: Okhi 90, Presia Pro, R30 Non RTO

Representatives: Ritika and Deepak

12- Java:

Vehicles: Java Bobber, Java 42, ESD Adventure

Representatives: Mohit Verma, Sameer Dubey

13- Royal Enfield:

Vehicles: Classic 360, Meteor, Himalayan
Representatives: Aman and Kiran Bisht

14- Volkswagen:

Vehicle: Tiguan
Representative: Neeraj

15- Skoda:

Vehicle: Kushaq
Representative: Mr. Baluni

16- Luxury Ride:

Vehicle: Mercedes GLE 250
Representatives: Siddhartha and Vikas Baliyan



Conclusion:

"Automesse" proved to be an enthralling event, leaving an indelible mark on the minds of the attendees, especially the students of the Mechanical Engineering Department. The exhibition not only provided them with a glimpse of the latest trends and technologies in the automobile industry but also served as a source of inspiration for their future endeavors. The event's success would not have been possible without the support of ONGC IDT and the participation of esteemed automobile companies and their representatives. We express our gratitude to

all who contributed to the success of "Automesse," and we look forward to organizing more such enriching events in the future.

Alumni Interaction Event with Shivam Batra

Date: 16th January 2023

Name of Alumnus: Mr. Shivam Batra

Topic: Learning the Art of Building Sustainable and Circular Businesses

Mr. Shivam Batra, an esteemed alumnus, who is currently working at MTC Exigo Recycling Private Limited as a Senior Manager in Gurugram and Chennai, was the distinguished guest speaker for the session. The session took place on 16th January 2023, and it focused on the topic "Learning the Art of Building Sustainable and Circular Businesses."



During the session, Mr. Shivam Batra delivered an astonishing presentation on the significance of building sustainable and circular businesses in today's world. He shared his personal experiences and valuable insights, emphasizing the importance of considering environmental and social aspects while pursuing entrepreneurial ventures.

A total of 18 students eagerly participated in the session, and they were captivated by Mr.

Batra's expertise and passion for sustainability and circular economy. He elaborated on the challenges and opportunities faced by businesses in incorporating sustainable practices and adopting circular business models.

Moreover, Mr. Batra shared how the values and ethics instilled during his time at Graphic Era Deemed to be University played a pivotal role in his decision to contribute to sustainable development through his career.



The session not only deepened the students' understanding of sustainable and circular businesses but also inspired them to be conscious of the impact of their future professional choices on the environment and society.

The interactive nature of the session allowed the students to engage in meaningful discussions with Mr. Batra and seek guidance on how they can pursue careers aligned with sustainability and circular economy principles.



In conclusion, the session with Mr. Shivam Batra was a tremendous success, and it provided valuable insights into the art of building sustainable and circular businesses. The students left the session feeling motivated and determined to incorporate these principles into their future endeavors.

We take immense pride in our accomplished alumni like Mr. Shivam Batra, and we are committed to organizing more such insightful sessions to benefit our students and strengthen the bond between the university and its alumni.

Alumni Interaction Event with Robin Tyagi

Date: 10th February 2023

Name of Alumnus: Mr. Robin Tyagi

Topic: Journey So Far, Learnings at GEU

Mr. Robin Tyagi, a distinguished alumnus, who is currently working at IKEA Canada as Deputy Sales Manager in Halifax, NS, Canada, was the esteemed guest speaker for the session. The session took place on 10th February 2023, and it centered around the topic "Journey So Far, Learnings at GEU."



During the session, Mr. Robin Tyagi delivered an astonishing presentation on his personal and professional journey since graduating from Graphic Era Deemed to be University. He shared his valuable

experiences and insights, highlighting the lessons and learnings he gained during his time at the university.

A total of 53 students enthusiastically participated in the session, and they were captivated by Mr. Tyagi's experiences and wisdom. He shared how the academic and extracurricular activities at Graphic Era Deemed to be University played a significant role in shaping his career and preparing him for the challenges in the professional world.

Moreover, Mr. Tyagi shared the hardships he faced during his initial job search and how he persevered to secure a position at IKEA Canada. His success story served as an inspiration for the students, motivating them to be proactive and determined in achieving their career goals.



In conclusion, the session with Mr. Robin Tyagi was a tremendous success, and it provided valuable insights into the journey of a successful alumnus. The students left the session feeling motivated and empowered, with a deeper understanding of the importance of holistic development during their time at the university.

We are immensely proud to have accomplished alumni like Mr. Robin Tyagi, and we are committed to organizing more enlightening sessions to benefit our students and strengthen the bond between the university and its alumni.



The session not only gave the students valuable insights into Mr. Tyagi's journey but also provided them with actionable advice on how to make the most of their time at the university and prepare for successful careers.

The interactive nature of the session allowed the students to actively engage with Mr. Tyagi, asking questions and seeking guidance on various aspects of career planning and personal development.

Alumni Interaction Event with Nipun Saxena

Date: 29th April 2023

Name of Alumnus: Mr. Nipun Saxena

Topic: Engineering Project Management

Mr. Nipun Saxena, an esteemed alumnus, who is currently working at ATS Infrastructure as an Assistant Project Engineer in Greater Noida, was the distinguished guest speaker for the session. The session took place on 29th April 2023,

and it focused on the topic "Engineering Project Management."

ALUM INTERACTION

Department of Mechanical Engineering

TOPIC

"Project Planning, Cost estimations, Stakeholder engagement management"

29 Apr 2023 04:00PM ONWARDS

CR15, B.Tech Block, Graphic Era (Deemed to be) University

Mr. Nipun Saxena
Assistant project Engineer, ATE, Greater Noida
Alum *Class of 2012

The interactive nature of the session allowed the students to actively engage with Mr. Saxena, asking questions and seeking guidance on various aspects of project management and career growth in the engineering field.



In conclusion, the session with Mr. Nipun Saxena was a tremendous success, and it provided valuable insights into the complexities of engineering project management. The students left the session feeling motivated and determined to enhance their project management skills to become successful engineers.

We take immense pride in our accomplished alumni like Mr. Nipun Saxena, and we are committed to organizing more such informative sessions to benefit our students and strengthen the bond between the university and its alumni.

During the session, Mr. Nipun Saxena delivered an astonishing presentation on the intricacies of engineering project management. He shared his personal experiences and valuable insights, shedding light on the challenges and strategies involved in successfully managing engineering projects.

A total of 28 students enthusiastically participated in the session, and they were captivated by Mr. Saxena's expertise and passion for project management. He elaborated on the importance of effective planning, communication, and teamwork in ensuring the successful execution of engineering projects.

Moreover, Mr. Saxena shared how the practical exposure and theoretical knowledge gained during his time at Graphic Era Deemed to be University equipped him with the necessary skills to excel in his role as a project engineer.

The session not only deepened the students' understanding of engineering project management but also inspired them to develop essential managerial skills and problem-solving abilities to thrive in the professional world.

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congratulations

Ekta Dhapola

student of B.Tech- Mechanical
passing out Batch 2023, for
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Sourav Belwal

student of B.Tech- Mechanical
passing out Batch 2023, for
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Radhika Agarwal

student of B.Tech- Mechanical
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Shantanu Tiwari

student of B.Tech- Mechanical
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Alekh Dwivedi

student of B.Tech- Mechanical
passing out Batch 2023, for
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Kushagra Parihar

student of B.Tech- Mechanical
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Partho Dhali
student of B.Tech- Mechanical
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getting placed at

AVL

Batch 2019-23



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Piyush Sharma
student of B.Tech- Mechanical
passing out **Batch 2023**, for
getting placed at

Jio

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Umang Rana
student of B.Tech- Mechanical
passing out **Batch 2023**, for
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JSW

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Mayank Joshi
student of B.Tech- Mechanical
passing out **Batch 2023**, for
getting placed at

Jio

Batch 2019-23



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Sourav Belwal
student of B.Tech- Mechanical
passing out **Batch 2023**, for
getting placed at

KEYENCE

Batch 2019-23



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Alekh Dwivedi
student of B.Tech- Mechanical
passing out **Batch 2023**, for
getting placed at

Jio

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Tarun Prakash Prajapati

student of B.Tech- Mechanical
passing out Batch 2023, for
getting placed at



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Kaustubh Mishra

student of B.Tech- Mechanical
passing out Batch 2023, for
getting placed at



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Shrish Kumar

student of B.Tech- Mechanical
passing out Batch 2023, for
getting placed at



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Vaibhav Nainwal

student of B.Tech- Mechanical
passing out Batch 2023, for
getting placed at



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Shreshth Goswami

student of B.Tech- Mechanical
passing out Batch 2023, for
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Saurabh Upadhyay

student of **B.Tech- Mechanical**
passing out **Batch 2023**, for
getting placed at



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Shivam Tripathi

student of **B.Tech- Mechanical**
passing out **Batch 2023**, for
getting placed at



Batch 2019-23



Infrastructure and Facilities



- ✔ **State-of-the-art labs:** Well-equipped labs for robotics, mechatronics, CAD/CAM, and computational fluid dynamics.
- ✔ **Advanced manufacturing facilities:** 3D printing, CNC machining, and laser cutting facilities.
- ✔ **Mechanical workshop:** Fully equipped workshop for hands-on training and project development.
- ✔ **Research centers:** Established research centers for renewable energy, robotics, and advanced manufacturing.



- ✔ **Industry collaborations:** Partnerships with leading industries for joint research projects and internships.
- ✔ **Innovation incubator:** Dedicated space for students to develop and incubate their innovative ideas in any of our lab simulation labs can also be included.
- ✔ Advanced ML-AI based innovations, projects and skill development courses.
- ✔ Active clubs for robotics, racing, and innovation, annual technical festivals with competitions, workshops, and guest lectures, Regular industrial visits and tours to provide hands-on experience.



Startups and Mechepreneurs



Mr. Rajat Jain

Founder and CEO of Sunfox India Pvt. Ltd.

A star boy as featured on Shark tank India with glorious "ALL 5 SHARKS DEAL". Sunfox is currently working on several health care issues.



Mr. Yatharth Joshi

Papertechy Team Pvt. Ltd

Having several records and creative achievements in the bucket, the startup is going to be the next big thing in the years to come

Our Esteemed Alumni Success Stories and Contributions



Ms. Anumisha Pal

BA Folding Cartons
Quality Assurance Technician
Waterloo, Ontario, Canada

The strong academic foundation and practical knowledge imparted at Graphic Era University played a crucial role in shaping my career. The department's focus on quality management and industrial training has greatly contributed to my success in the packaging industry in Canada



Mr. Intekhab Alam

Nine Yards
Business Development and
Quality Executive,
Nottingham, UK

Graphic Era University provided me with the technical and managerial expertise required to excel in the global market. The Mechanical Engineering Department's emphasis on innovation, business acumen, and industry collaboration has been instrumental in my professional growth in the UK.



Ms. Bhumika Rautela

Strategic/ Project Purchaser
Dauphin Human Design Group
GmbH, Hersbruck, Germany

The practical exposure and industrial projects at Graphic Era University shaped my understanding of procurement strategies and supply chain management. The Mechanical Engineering Department's industry-oriented curriculum helped me establish a strong foundation in the field, enabling my success in Germany's competitive manufacturing industry.



Mr. Robin Tyagi

Company: IKEA
Designation: Sales Manager
Location: Halifax, NS, Canada

From technical concepts to strategic problem-solving, my learning at Graphic Era University helped me transition seamlessly into the corporate world. The university's emphasis on leadership and communication skills gave me the confidence to thrive in a global retail giant like IKEA

Founded by Prof. Kamal Ghanshala in 1997, Graphic Era (Deemed to be University) has grown immensely. As the Best University in Dehradun, we offer a high-quality education and a nurturing environment that encourages innovation, fosters critical thinking, and prepares you for the future. To offer a world-class education that focuses on cutting-edge technology, student professional development, critical thinking, and high-quality research. Graphic Era (Deemed to be University), India's premier university, has accomplished countless milestones in its illustrious history thanks to its academic rigor, continuously top-performing students and alumni, and a very strong and competent teaching faculty.

It has been proven beyond reasonable doubt that Graphic Era is among the top-notch universities in India as our University has featured in the Top 100 Universities of India, in the coveted National Institutional Ranking Framework established by the Government of India, for the past five years consecutively, with the rankings growing each year across varied domains.

Graphic Era (Deemed to be University) is located in the lovely and quiet city of Dehradun, tucked in a valley bounded by Rajaji National Park on one side and Clement Town Cantonment on the other. Graphic Era (Deemed to be University), the premier University in Uttarakhand, prioritises overall student development.

Editor-in-Chief

- Head of the Department, Mechanical Engineering

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 - Editor 2: Mr PARITOSH MISHRA
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- 4th Year Representatives:

- Ms. EKTA DHAPOLA
- Mr. ANJAS ASRANI

- 3rd Year Representatives:

- Ms. AISHWARYA JARAUT
- Mr. ROHIT PANT

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- Ms. SHAGUN GAMBHIR
- Mr. ADITYA NAGALIA

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