

Graphic Era
Deemed to be
University
DEHRADUN



यांत्रिकी ऐस

Even Semester 2023-24

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.

Newsletter: Even Semester 2023-24, Department of Mechanical Engineering, Graphic Ea Deemed to be University

International Conference on Design, Materials, and Manufacturing engineering for Sustainable Development

Date: 9 to 10 May 2024

Organized by: Department of Mechanical Engineering, GEU. The ICDMMESD-2024 two days "International Conference on Design, Materials, and Manufacturing engineering for Sustainable Development" concluded on 10th May organized by the Department of Mechanical Engineering at Graphic Era Deemed to be University, Dehradun. The conference had thought provoking inaugural session followed by keynote speeches by the stalwarts from academia and industry. The chief guest Prof. Harendra Singh Bisht (Director, IIP Dehradun) raised concern to reduce the carbon emission through sustainable technologies and gave insight about the need of high-end research and innovation in different sectors. Mr. Vishwa Vijaya Tyagi (Cluster Head, Rockman Industries, Haridwar) reflected the practices adopted by the industry to reduce harm to the environment by smart implementation of technologies. Prof. S.P. Harsha (IIT Roorkee) spoke on the benefits of design considerations, Dynamics of Smart Structure (FGM) and Rail dynamics. Prof. Narpinder singh (Vice Chancellor, GEU) gave insight about the big impact of research in the area of digital twins and product life cycle management through circular economy and smart technologies. Keynote lectures were delivered by Prof. S.P. Harsha (IIT Roorkee), Prof. R.K. Gautam (IIT BHU Varanasi), Prof. M.M. Noor (FTKMA, UMPSA, Malaysia), and Dr. Erdem Cuce (Recep Tayyip Erdogan University, Turkey), Dr. Anuj Kumar Sharma (Centre for Advanced Studies, Dr. APJAKTU Lucknow), Dr. Jitendra Katiyar (Chitkara University). Total 139 research articles were presented by researchers from India and abroad, highlighting the advancement in technologies towards sustainable development, a critical challenge in today's

rapidly progressing world. Future conferences can build upon the momentum generated by ICDMMESD-2024 to explore new frontiers in sustainable engineering and translate research findings into practical solutions for a sustainable future.



Accollade 2.0 – Unleashing Creativity and Adventure!

Date: 1st to 3rd March 2024

Organized by: Paper Tech Club in collaboration with multiple student clubs at Graphic Era Deemed to be University (GEU). Get ready to experience an exciting and unique blend of creativity, art, and adventure with Accollade 2.0, an event designed for the free-spirited and the curious. Held from the 1st to the 3rd of March 2024, this three-day celebration of unconventional ideas, creativity, and teamwork brought together students from across departments to participate in a wide array of events, workshops, and competitions. The event was organized by the Paper Tech Club of Graphic Era Deemed to be University (GEU) in collaboration with other clubs, with the aim of creating an atmosphere where students could express themselves through art, engage in physically challenging ground activities, and learn new skills through hands-on workshops.

Creative Highlights: Artistein - From Trash to Treasure

The artistic segment of Accollade 2.0, titled Artistein, focused on turning everyday materials into extraordinary creations. Under the theme "From Trash to Treasure," participants were encouraged to use waste materials and recycled objects to create beautiful and functional pieces of art. This initiative not only fostered creativity but also raised awareness about sustainability and the importance of reusing resources. The ingenuity and craftsmanship displayed by the participants were truly inspiring.

Another exciting event was Brushless Painting, where students explored new ways to express their artistic abilities without traditional painting tools. Using their hands, sponges, and other unconventional materials, participants crafted breathtaking pieces that showcased innovation and

spontaneity. Alongside Brushless Painting, students also got a chance to showcase their talent in Rock Art, where they painted and decorated rocks, turning them into personalized works of art.

Ground Events: Adventure and Team Spirit

The adrenaline-pumping ground events were another major highlight of Accollade 2.0. The event saw enthusiastic participation in activities like Tug-of-Force, which tested participants' physical strength, teamwork, and strategy. Groups of students competed in intense, energetic rounds, pulling against one another to claim victory. For sports lovers, Gully Cricket brought the excitement of street cricket to the campus, reviving the joy and nostalgia of playing in open spaces. Teams of students competed with passion, creating a fun and lively atmosphere. The final ground event, Mystery Map Missions, was a thrilling scavenger hunt where teams of participants were tasked with navigating a mystery-filled map to uncover clues, solve puzzles, and complete tasks. It combined elements of adventure, problem-solving, and strategy, making it one of the most memorable activities of the event.

Workshops: Learning New Skills

Accollade 2.0 also offered a series of hands-on workshops that allowed participants to develop new skills in a relaxed and creative environment. Among these was the **Quilling Workshop**, where students learned the delicate art of quilling, turning strips of paper into intricate designs and decorative patterns.

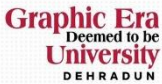
A **Video Editing Workshop** introduced participants to the basics of video production, editing techniques, and creative storytelling. Students got the opportunity to use professional editing software and learned how to craft engaging videos that captured their unique perspectives. The

Graphite Charcoal Workshop offered a space for budding artists to explore the rich, textured medium of charcoal and graphite, providing valuable insights into sketching techniques and shading.

Conclusion: A Celebration of Free Spirit

Accollade 2.0 was a celebration of innovation, creativity, and camaraderie, offering something for every kind of participant, from artists and creators to sports enthusiasts and learners. The event successfully fostered an environment where students could engage in meaningful interactions, express their ideas freely, and showcase their talents. As the students left the event, they carried with them not only the prizes they won but also memories of shared experiences, new friendships, and the invaluable knowledge and skills they gained. Accollade 2.0 was a true testament to the spirit of free expression, teamwork, and adventure, making it one of the most anticipated and talked-about events of the year.







Accollade 2.0

UNUSUAL EVENTS FOR FREE SPIRITS

ARTISTEIN	GROUND EVENTS	WORKSHOPS
• Trash to Treasure • Sketch/Painting • Brushless Painting • Mehendi Moments • Rock Art	• Tug-of-Force • Gully Cricket • Checkmate Chess • Push-ups • Mystery Map Mission • Lemon Dash	• Quilling • Video Editing • Graphite Charcoal



01 — 03
March 2024


accolladegeu.netlify.app





Alumni Interaction Event - Inspiring Journeys and Industry Insights

Date: 5th February 2024

Time: 11:00 AM – 12:45 PM

Venue: M1, Mechanical Engineering Block, Graphic Era Deemed to be University (GEU)

The Department of Mechanical Engineering at Graphic Era Deemed to be University (GEU) hosted an engaging Alumni Interaction Session on the 5th of February 2024. The event featured two distinguished alumni from the 2017 graduating batch, Mr. Deepak Rajput (Founder & CEO, Dcodepro Softwares Pvt. Ltd.) and Mr. Satyam Priyam (Design Engineer, Ather Energy). The interactive session took place at M1, ME Block and was attended by students, faculty members, and staff, all eager to learn from the success stories and experiences of these accomplished alumni.

The session commenced at 11:00 AM with an introduction by the faculty coordinator, who warmly welcomed the alumni and gave a brief overview of their professional accomplishments. The interaction

was structured to provide students with insights into the latest trends in their respective fields—software development and design engineering—and to hear firsthand about the journey of the alumni from their time as students at GEU to their current professional endeavors.

Mr. Deepak Rajput – Founder & CEO, Dcodepro Softwares Pvt. Ltd.

Mr. Deepak Rajput, a visionary entrepreneur, shared his remarkable journey of building his own company, Dcodepro Softwares Pvt. Ltd. He described the challenges and milestones he encountered in establishing his firm and his determination to pursue his dream of providing cutting-edge software solutions. Mr. Rajput emphasized the importance of persistence, innovation, and a growth mindset for anyone aspiring to build a start-up.

He further shared insights into the current trends in the software development industry, such as the increasing role of artificial intelligence, cloud computing, and machine learning in shaping the future of technology. His talk inspired students to think big and take risks in pursuit of their passions. He acknowledged the crucial role GEU played in shaping his foundational knowledge and how the university's encouragement of innovation helped him in his entrepreneurial journey.

Mr. Satyam Priyam – Design Engineer, Ather Energy

Following Mr. Rajput's session, Mr. Satyam Priyam, who currently works

as a Design Engineer at Ather Energy, shared his experiences working with one of the most innovative companies in the electric vehicle (EV) industry. He highlighted the importance of sustainability and the growing demand for green technologies like EVs in the automotive sector.

Mr. Priyam discussed the challenges of working in the EV industry, such as rapid technological advancements and the need for continuous learning. He also provided an overview of design engineering as a profession, including key skills that are in demand, like CAD modeling, product lifecycle management, and understanding materials science. His detailed insights gave students a glimpse into what it takes to succeed in the field of design engineering. He also credited GEU for providing a solid technical foundation and hands-on exposure through workshops and labs, which he said contributed significantly to his success.

Takeaways for Students

The session concluded with an interactive Q&A, where students asked questions ranging from career advice to technical challenges faced in their respective industries. Both alumni encouraged students to remain curious, adaptable, and committed to lifelong learning. As the session wrapped up at 12:45 PM, students left with a renewed sense of purpose and motivation, having gained valuable knowledge from their seniors. The university's faculty expressed their gratitude to Mr. Deepak Rajput and Mr. Satyam

Priyam for taking time out of their schedules to interact with the students.

The Alumni Interaction event was not only an opportunity to learn about the latest industry trends but also an inspiration for the students to follow their own paths to success. The department looks forward to organizing more such interactive sessions to bridge the gap between students and professionals, enabling them to navigate their careers with confidence.

**ALUMNI
INTERACTION**

Department of
Mechanical Engineering

TOPIC

**"Entrepreneurship
and Market Needs"**

5 Feb
2024

11:00AM
ONWARDS

M1, ME Block, Graphic Era
(Deemed to be University)

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Mr. Deepak Rajput

Graphic Era
Deemed to be
University
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Mr. Satyam Priyam



B.Tech Mechanical Engineering Student Secures Spot at EPF Engineering School, France

Date: February 2024

The Department of Mechanical Engineering at Graphic Era Deemed to be University (GEU) is proud to announce that Ashmeet Aaron Dass Nathaniel, a talented and dedicated student from the B.Tech Mechanical Engineering program, has earned a prestigious opportunity to study his eighth semester at the renowned EPF Engineering School in France. This remarkable achievement highlights Ashmeet's academic excellence and GEU's commitment to fostering global education and international collaborations.

EPF Engineering School, one of France's top engineering institutions, is known for its rigorous curriculum, cutting-edge research, and a strong focus on innovation and technology. Securing a spot at EPF is a significant achievement for any engineering student, and Ashmeet's selection is a testament to his hard work, passion for mechanical engineering, and desire to broaden his educational horizons.

A Journey of Dedication and Excellence

Ashmeet Aaron Dass Nathaniel's academic journey has been nothing short of inspiring. Since the beginning of his time at GEU, he has demonstrated exceptional dedication to his studies and consistently strived to deepen his knowledge in the field of mechanical engineering. His commitment to academic excellence, coupled with a keen interest in exploring advanced engineering technologies, played a pivotal role in his selection for this incredible opportunity.

At GEU, Ashmeet has been an active participant in various workshops, seminars, and hands-on projects, all of which contributed to his growing expertise in mechanical engineering. His engagement in practical learning, research projects, and innovative design work has not only prepared him for this international opportunity but has also made him a role model for his peers.

Global Exposure and International Learning

By earning a spot at EPF Engineering School, Ashmeet will be exposed to a global learning environment where he will interact with students from diverse cultural and educational backgrounds. This experience will allow him to gain valuable insights into the latest trends and advancements in mechanical engineering, as well as collaborate with leading experts in the field. Studying at EPF will also provide Ashmeet with the chance to work on international research projects, access world-class laboratories, and explore emerging technologies that are shaping the future of mechanical engineering. This exposure to a different academic and research environment will further refine his skills and prepare him for a successful global career in engineering.

An Inspiration to Fellow Students

Ashmeet's selection for this prestigious international opportunity is not only a personal achievement but also a source of inspiration for his fellow students at GEU. His journey demonstrates the importance of perseverance, hard work, and a passion for continuous learning. Ashmeet has set a stellar example for aspiring engineers, showcasing that with dedication and the right guidance, students can achieve their dreams on an international stage.

GEU's Commitment to Global Education

At Graphic Era Deemed to be University, we believe in providing students with the best opportunities to enhance their education and prepare them for a dynamic and evolving global workforce. Ashmeet Aaron Dass Nathaniel's achievement underscores the university's commitment to fostering international collaborations and enabling students to pursue world-class educational experiences.

We extend our heartiest congratulations to Ashmeet for this outstanding accomplishment and wish him the best of luck for his academic journey at EPF Engineering School in France. We are confident that he will continue to excel and make the university proud.



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congratulations

Ujwal Pratap Singh

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at



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Nikhil Kumar

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at



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Gunjan

student of B.Tech (ME)
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for getting placed at



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Indrasish Ghosal

student of B.Tech (ME)
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Prashant Singh

student of B.Tech (ME)
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Robin Davis

student of B.Tech (ME)
passing out **Batch 2024**,
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Rohit Pant

student of B.Tech (ME)
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Namra Gusain

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Aishwarya Jaraut

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Tushar Chauhan

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at



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Rehman Khan

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at



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Yuvraj Deopa

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at



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congratulations

Sahitya Shekhar

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at

**MUNJAL
SHOWA**



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congratulations

Ramandeep

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at

VOLTAS



Batch 2020-24

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congratulations

Yogesh Bhatt

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at

VOLTAS
A TATA Enterprise



Batch 2020-24

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congratulations

Saurav Mehta

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at

**MUNJAL
SHOWA**



Batch 2020-24

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congratulations

Rasul Bhadri

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at

VOLTAS
A TATA Enterprise



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congratulations

Tanmay Kohli

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at

AVL



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University
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congratulations

Rishav Nodiyal

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at

AVL



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University
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congratulations

Shashank Bhatt

student of B.Tech (ME)
passing out **Batch 2024**,
for getting placed at

AVL



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.

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- Head of the Department, Mechanical Engineering

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- Editor 2: Mr PARITOSH MISHRA

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- Ms. AISHWARYA JARAUT
- Mr. ROHIT PANT

3rd Year Representatives:

- Ms. SHAGUN GAMBHIR
- Mr. ADITYA NAGALIA

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- Ms. SHRUTI S KHANDELWAL
- Mr. AYUSH RAWAT

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