

Graphic Era
Deemed to be
University
DEHRADUN



यांत्रिकी ऐस

Odd 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.

Dussehra Celebration: Embracing Sustainability and Teamwork

Date: 5th July 2022

Venue: Main Ground, Graphic Era

Deemed to be University, Dehradun

The eve of Dussehra was celebrated with great enthusiasm and a touch of sustainability at Graphic Era Deemed to be University. The Department of Mechanical Engineering took the lead in organizing a unique event by contributing to the construction of the Ravan Putla, using scrap metal and waste materials collected from the university. The event aimed to foster a sense of teamwork, promote sustainable development practices, and provide valuable learning opportunities for the participating students.

Event Overview:

The Dussehra celebration, organized by the Department of Mechanical Engineering, embraced the essence of the festival by crafting the Ravan Putla, symbolizing the victory of good over evil. However, what set this event apart was the conscious effort to use scrap metal and other waste materials for its construction, aligning with the principles of sustainable development and environmental conservation.

Construction Process:

The students of the Mechanical Engineering Department played a central role in the construction process. They meticulously collected scrap metal and waste materials from various sources within the university campus, highlighting the significance of recycling and reusing resources to reduce waste and promote a greener environment. Under the guidance of their mentors, the students enthusiastically worked together as a team to transform the discarded materials into an impressive and

visually striking Ravan Putla. This hands-on experience provided them with practical insights into manufacturing technologies and encouraged creativity in repurposing materials.



Learning and Values:

The Dussehra event not only celebrated the cultural significance of the festival but also served as an important learning platform for the students. By actively engaging in the construction process, they imbibed valuable lessons in teamwork, ethics, and sustainable practices. It sensitized them to the importance of responsible resource management and instilled a sense of environmental stewardship. The project not only enhanced their technical skills but also fostered a sense of social responsibility and empathy towards the environment. The students gained a deeper understanding of how individual actions, even in a small context like constructing an effigy, can contribute to the larger cause of sustainable development.





Symbolic Culmination:

The Dussehra celebration reached its symbolic culmination on the evening of 5th October 2022 when the Ravan Putla was set ablaze. The burning of the effigy served as a powerful metaphor, reminding everyone of the triumph of good over evil, encouraging the participants to shun negativity and embrace positivity. The sight of the Ravan Putla engulfed in flames evoked a sense of unity and joy among the attendees, leaving a lasting impact on their minds. It reinforced the values of harmony, togetherness, and the indomitable spirit to conquer evil.

Conclusion:

The Dussehra celebration organized by the Department of Mechanical Engineering at Graphic Era Deemed to be University was a resounding success. It demonstrated how festivities can be embraced with a sustainable approach and meaningful learning experiences. The event highlighted the potential of students in contributing to a greener and more responsible future through their creativity, teamwork, and dedication. It was a manifestation of the university's commitment to instilling values of sustainable development and social responsibility in its students. We express our gratitude to the Department of Mechanical Engineering, the participating students, and the university

community for making this event a memorable and impactful celebration. The success of this Dussehra celebration serves as an inspiration to continue organizing such meaningful events that reflect the true essence of our cultural festivals while promoting sustainable practices and teamwork.

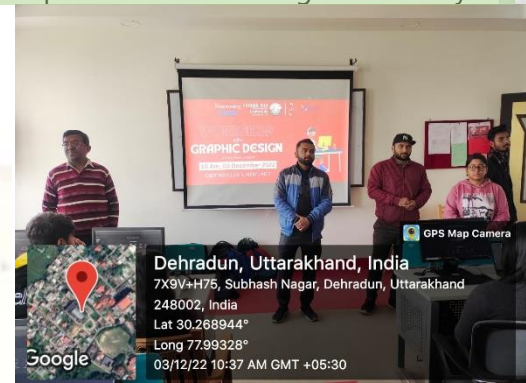
Workshop on Graphic Design: Unleashing Creativity with Adobe Tools

Organized by: Papertech Club

Date: 3rd December

Venue: Graphic Era Deemed to be University, Dehradun

On 3rd December 2022, the Department of Mechanical Engineering and the Department of Computer Science & Engineering collaborated to organize a comprehensive workshop on Graphic Design at Graphic Era Deemed to be University. The event aimed to equip students with essential skills in using Adobe Illustrator and Adobe Photoshop, empowering them to explore the world of digital creativity.



Event Overview:

The "Workshop on Graphic Design" provided an excellent platform for students to delve into the realm of graphic design and enhance their proficiency in two powerful Adobe tools – Illustrator and Photoshop. The workshop was tailored to meet the diverse interests of students from both the Mechanical Engineering and

Computer Science & Engineering departments, allowing them to explore new horizons in design.

Learning with Adobe Illustrator and Adobe Photoshop:

During the workshop, students were introduced to the fundamentals of graphic design and the intricacies of Adobe Illustrator and Adobe Photoshop. Renowned industry experts and experienced faculty members guided the participants through hands-on exercises and real-world examples.

The workshop sessions covered various aspects, including vector graphics creation, logo design, image editing, poster design, and typography manipulation. The interactive and practical approach of the workshop enabled students to grasp the concepts quickly and apply them creatively.

Active Participation:

The workshop received an overwhelming response, with a total of 149 students actively participating in the event. The students' enthusiasm and eagerness to learn were evident throughout the sessions. They embraced the opportunity to enhance their digital design skills and displayed remarkable creativity in their projects.

Cross-Department Collaboration:

The joint collaboration between the Department of Mechanical Engineering and the Department of Computer Science & Engineering proved to be a harmonious blend of technology and creativity. It not only provided a diverse learning experience but also fostered interdisciplinary collaboration, encouraging students from different academic backgrounds to collaborate and share their knowledge.

Impact and Future Prospects:

The "Workshop on Graphic Design" left a lasting impact on the students

by instilling a new appreciation for the art of graphic design and its practical applications. The participants gained valuable insights into industry-standard design tools, making them more adept at creating visually appealing and professional designs. The success of this workshop has paved the way for the university to consider organizing more interdisciplinary workshops and collaborations in the future. Such initiatives promote holistic learning and prepare students for the dynamic demands of the modern world.

Conclusion:

The "Workshop on Graphic Design" was a resounding success, thanks to the joint efforts of the Department of Mechanical Engineering and the Department of Computer Science & Engineering. It provided a platform for students to explore their creative potential while developing practical skills using Adobe Illustrator and Adobe Photoshop.

The event's success is a testament to the university's commitment to nurturing talent and fostering cross-disciplinary collaboration. We extend our gratitude to the faculty members, industry experts, and the enthusiastic participants who contributed to making this workshop a memorable and enriching experience.

We look forward to organizing more such engaging workshops and events that empower students with practical skills, creativity, and a holistic perspective on learning. The "Workshop on Graphic Design" is a stepping stone towards a more vibrant and innovative learning environment at Graphic Era Deemed to be University.

Alumni Interaction Session with Mr. Bhanu Pratap Singh

Date: 23rd September 2022

Name of Alumnus: Mr. Bhanu Pratap Singh

Topic: Wisdom of Clouds with Data Science

Mr. Bhanu, a successful alumnus, who is currently working at Techvidya as a Salesforce Trainer in Pune, was the guest speaker for the session. The session took place on 23rd September 2022, and it was titled "Wisdom of Clouds with Data Science."

**ALUMNI
INTERACTION**
Department of Mechanical
Engineering

TOPIC

**"Wisdom of
Clouds with Data
Science"**

23 Sep 2022 03 PM ONWARDS

Conference Hall, Prof. KP Nautiyal Block
Graphic Era Deemed to be University

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Alumnus: B. Tech M.E.
Class of 2019
Bhanu Pratap Singh
Salesforce Trainer, Techvidya

various career opportunities and to never give up on their dreams.

The session was not only informative but also interactive, as the students actively participated by asking questions and seeking guidance from Mr. Bhanu. His willingness to share his knowledge and experiences with the students was truly commendable.



In conclusion, the session with Mr. Bhanu was a great success, and it provided valuable insights into the integration of cloud technology with data science. The students were enriched with knowledge and motivated to explore diverse career paths in the ever-evolving technology landscape. We are proud to have such accomplished alumni like Mr. Bhanu, and we look forward to organizing more such sessions for the benefit of our students.

Alumni Interaction Session with Mr. Pranjal Vats

Date: 15th October 2022

Name of Alumnus: Mr. Pranjal Vats

Topic: Influence of Extra-curricular activities on job opportunities

Mr. Pranjal, a successful alumnus, who is currently working at ATS Infrastructure as a Graduate Engineer Trainee in Greater Noida, was the guest speaker for the session. The session took place on 15th October 2022, and it was titled "Influence of Extra-curricular activities on job opportunities."

During the session, Mr. Pranjal delivered an astonishing presentation on the significance of extra-curricular activities and their impact on job opportunities. He shared his experiences and insights on how participating in various extra-curricular activities during his time at the university helped him in his professional journey.



A total of 32 students joined the session, and they were intrigued by Mr. Pranjal's perspective on how skills developed through extra-curricular activities, such as leadership, teamwork, communication, and time management, are highly valued by employers in the job market. Moreover, Mr. Pranjal talked about the challenges he faced during his job search and how his active involvement in extra-curricular activities made a significant difference in distinguishing him from other candidates during the recruitment process.

The session was not only informative but also inspiring, as it motivated the students to actively engage in extra-curricular activities and develop a well-rounded personality. Mr. Pranjal's success story was a testament to the fact that academic excellence, combined with extra-curricular achievements, opens up more avenues for professional growth. The students actively participated in the session, asking questions and seeking advice from Mr. Pranjal on

how to strike a balance between academics and extra-curricular activities. His willingness to share his insights and experiences with the students was truly commendable.



In conclusion, the session with Mr. Pranjal was a great success, and it highlighted the significance of extra-curricular activities in shaping a successful career. The students were inspired to explore various opportunities outside the classroom and to leverage their extra-curricular achievements to stand out in the competitive job market. We are proud to have such accomplished alumni like Mr. Pranjal, and we look forward to organizing more such sessions for the benefit of our students.

Alumni Interaction Session with Mr. Gaurav Sharma

Date: 3rd November 2022

Name of Alumnus: Mr. Gaurav Sharma

Topic: Skillset required in Automotive Industries Today

As the Alumni Coordinator of the department of Mechanical Engineering, I had the pleasure of hosting a series of Alumni sessions for the current students of our department. One such session was conducted by Mr. Gaurav Sharma, an alumnus of our university who is currently working as an Area Head Service at Causis E Mobility. The session was held on 3rd November

2022 and was attended by a large number of students.

Mr. Sharma started the session by sharing his experiences at Graphic Era University and how it played a crucial role in shaping his career. He spoke about the importance of pursuing higher education and how it can help one achieve their career goals. He also emphasized the need to stay updated with the latest technological advancements in the field of Mechanical Engineering.

Sharma's experience and insights. He patiently answered all their queries and also shared his personal views on how to succeed in the field of Mechanical Engineering.



Overall, the session was a great success and provided students with valuable insights into the industry. Mr. Sharma's session gave the students a glimpse of what it takes to be successful in the industry and the importance of staying updated with the latest trends and technologies. I believe that the session was highly beneficial for our students and helped them gain a deeper understanding of the field of Mechanical Engineering. I would like to extend my sincere thanks to Mr. Sharma for taking the time to conduct this session and sharing his valuable insights with our students.



He then went on to share his experience of working at Causis E Mobility and the various projects he has been a part of. He explained the importance of teamwork and how collaboration plays a crucial role in the success of any project. He also shared his insights on how to work effectively in a team and how to overcome challenges faced during a project.

The session was highly informative and interactive, with students asking several questions related to Mr.

Alumni Interaction Session with Mr. Akshay Bhardwaj

Date: 14th December 2022

Name of Alumnus: Mr. Akshay Bhardwaj

Topic: Career Opportunities in Research and Product Design Industries

Mr. Akshay Bhardwaj, a distinguished alumnus, who is currently working at John Deere as an Engineer Product I in Pune, was the esteemed guest speaker for the session. The session took place on 14th December 2022, and it centered around the topic "Career

Opportunities in Research and Product Design Industries."



During the session, Mr. Akshay Bhardwaj delivered an astonishing presentation on the vast career opportunities available in the research and product design industries. He shared his personal experiences and valuable insights, shedding light on the challenges and rewards of working in these dynamic fields.

A total of 54 students enthusiastically participated in the session, and they were captivated by Mr. Bhardwaj's expertise and passion for the subject. He elucidated on the different domains and roles within research and product design industries, encouraging the students to explore and specialize in their areas of interest. Moreover, Mr. Bhardwaj emphasized the importance of continuous learning and acquiring specialized skills to excel in these industries. He shared how the foundation he developed during his time at Graphic Era Deemed to be University played a vital role in shaping his successful career. The session not only broadened the students' understanding of the career opportunities in research and product design but also inspired them to consider these exciting fields for their future endeavors.

The interactive nature of the session allowed the students to seek guidance and clarification from Mr. Bhardwaj on various aspects of the industry, job prospects, and career growth.



In conclusion, the session with Mr. Akshay Bhardwaj was a tremendous success, and it provided valuable insights into the numerous career opportunities in research and product design industries. The students left the session feeling motivated and enthusiastic about their potential in these fields.

We are incredibly proud to have such accomplished alumni like Mr. Akshay Bhardwaj, and we are committed to organizing more such informative sessions to benefit our students and strengthen the bond between the university and its alumni.

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



Life in the Campus

Capturing the spirit, energy, and memories that define our community.



Clock-wise from top left: Rhythms of Culture – Students showcasing a vibrant dance performance; Game On! – A perfect shot during a friendly campus cricket match; Colors of Joy – Holi celebrations bring the campus to life; Bhangra Beats – High-energy moves lighting up the stage; Star Power at Grafest – Bollywood icon Ayushmann Khurrana electrifies the crowd; Pedaling Through Campus – A scenic bicycle ride for a refreshing break; Strength & Discipline – Students in action during a martial arts training session; A Musical Spectacle – Bollywood sensation Arijit Singh performing at Grafest; Fitness Redefined – A state-of-the-art gymnasium for student well-being.



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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- Mr. ANJAS ASRANI

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- Ms. AISHWARYA JARAUT
- Mr. ROHIT PANT

2nd Year Representatives:

- Ms. SHAGUN GAMBHIR
- Mr. ADITYA NAGALIA

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