

Graphic Era
Deemed to be
University
DEHRADUN



Department of Mechanical Engineering

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2025-26

EIGHTH EDITION

University:

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.

Program Educational Objectives (PEOs):

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.



Dear Students, Colleagues, and Friends,
Welcome to the eighth edition of our departmental newsletter. As I look back at the incredible momentum we have built over the past academic year, I am filled with immense pride in the collective achievements of the Department of Mechanical Engineering at Graphic Era (Deemed to be) University. Engineering is not merely a course of study; it is an evolving mindset driven by curiosity, resilience, and a passion for turning ideas into reality.

A Legacy of Quality and Global Standards

Our biggest milestone this season is the prestigious National Board of Accreditation (NBA) accreditation extension granted to our B.Tech undergraduate program through December 31, 2028. Following a rigorous evaluation by the NBA Expert Team in early 2026, this continuous recognition validates our unwavering focus on Outcome-Based Education (OBE), cutting-edge research, and an industry-aligned curriculum. It ensures that our graduates stand shoulder-to-shoulder with the best technical minds globally.

Bridging the Gap: Classrooms to Industries

Innovation thrives when theory meets execution. Over the past year, we have intentionally broken down the walls of traditional learning:

- **Next-Gen Workshops:** From hosting intensive faculty development programs on Industry 4.0 tools—like 3D printing, CNC routing, and Arduino automation—to welcoming Class 12th students from CST School Herbertpur to ignite scientific curiosity in our laboratories.
- **Real-World Exposure:** Our 2nd and 3rd-year students gained invaluable field experience regarding industrial safety and mechanical systems during an immersive site visit to Sara Sae Private Limited.
- **Alumni & Expert Insights:** We were privileged to host esteemed alumni and industry stalwarts, including Mr. Raghvendra Lal (Divisional Manager, Ashok Leyland) to discuss Environmental, Social, and Governance (ESG) frameworks, Mr. Vaibhav Mishra (Deputy Manager, Hero MotoCorp) to map out manufacturing career paths, and Mr. Manvendra (Director, Inc) to deliver a critical BIS-chapter lecture on industrial standardization and ISO compliance.

A Message for the Journey Ahead

With over 18 years in engineering education, I have learned that true professional excellence requires a balanced life. Just as an engineer looks for structural balance, I find my personal equilibrium on long-distance cycling routes and the yoga mat. Mindfulness, physical endurance, and professional dedication are deeply interconnected. I encourage you to embrace your engineering journey with relentless curiosity. Do not fear complex problems; they are simply prototypes waiting for optimization. Fuel your passion, maintain your well-being, and let us continue to build a legacy of engineering distinction together.

Warm regards,

Dr. Kapil Kumar Sharma

Head of the Department, Mechanical Engineering
Graphic Era Deemed to be University, Dehradun

Workshop Activities & Topics

FDM 3D Printing & Slicing
CO₂ Laser Cutting & Engraving
CNC Router Programming
Polymer Composite Casting
Arduino Automation Systems
Hands-on Practice Modules

Technical Concepts

Additive Manufacturing
Laser-Material Interaction
G-code Toolpath Development
Resin Curing & Mold Prep
Microcontroller Architecture
Mechatronics Research

Learning Approach

Practical Capability
Live Demonstrations
Parameter Optimization
Curriculum Enrichment
Collaborative Discussions
Experiential Learning

Workshop Experts & Faculty Coordinators

Dr. Adhirath Mandal
Mr. Durgeshwar P. Singh
Mr. Yatharth Joshi
Er. Mohneesh Arya

Impact & Vision

Industry 4.0 Readiness
Rapid Prototyping Skills
Faculty Development
Digital Fabrication Scope
Departmental Innovation

Workshop on 'Advanced Tools for Manufacturing' Empowers Faculty in Modern Fabrication

The Department of Mechanical Engineering at Graphic Era (Deemed to be) University, Dehradun, organized a comprehensive one-week Faculty Development Workshop titled "Advanced Tools Use for Workshop and Manufacturing Practices" from 15th July to 21st July 2025. Aimed at enhancing faculty proficiency in modern manufacturing technologies, the program successfully blended theoretical lectures with intense hands-on practice to promote a deeper understanding of digital fabrication, automation, and modern material processing.

ADVANCING TOWARDS INDUSTRY 4.0

15-21 July 2025



Targeted at departmental faculty members looking to integrate advanced tools into teaching, research, and laboratory applications, the workshop served as a foundational platform for exploring emerging digital manufacturing systems. The sessions were meticulously conducted by a panel of expert resource persons, including Dr. Adhirath Mandal, Mr. Durgeshwar P. Singh, and Mr. Yatharth Joshi from GEU, alongside Er. Mohneesh Arya, a technical expert from Kataria Tech Zone, Amritsar.

Over the course of the week, participants were systematically introduced to five core technical domains. The program kicked off with the fundamentals of 3D Printing using PLA materials and slicing via Simplify 3D, followed by calibration and safety protocols for CO₂ Laser Cutting on MDF and acrylic. Faculty members also gained operational competence in CNC Router programming for wood and polymers, polymer-based composite casting methods for defect prevention, and Arduino architecture for interfacing sensors and actuators in mechatronics research. This multi-disciplinary training significantly strengthens the department's collaboration and readiness for next-generation engineering education.



Head of Department, Mechanical Engineering, Welcomes First-Year Students to Graphic Era (Deemed to be) University

A new academic chapter has begun! It was a pleasure for the Head of Department to welcome the fresh cohort of enthusiastic first-year students to the Mechanical Engineering department at Graphic Era (Deemed to be) University, Dehradun.

DISCOVERING THE FIELD OF MECHANICAL ENGINEERING

24 July 2025 to 03 August 2025

Induction Activities & Topics

HOD Address
Introduction to Mechanical Engineering
Automation & Robotics
3D Printing Technology
CNC Machining
Renewable Energy Tech
Innovation Showcase

Department Core Values

Academic Excellence
Practical Application
Innovation Focus
Cutting-edge Tech
Student Engagement

Aims & Objectives

Welcoming First-Year Students
Building Department Connections
Sparking Technical Interest
Introducing Departmental Scope
Guiding Future Engineers

Impact & Vision

Industry-relevant skills
Future-ready professionals
Sustainable innovation
Career pathways
Societal contributions



The interaction provided a key opportunity to introduce students to the diverse and dynamic scope of the field. Students explored the cutting-edge technologies that define Mechanical Engineering, including automation, robotics, and 3D printing.

The session highlighted real-world applications such as CNC machining and renewable energy tech. The day closed with an emphasis on the innovation, curiosity, and excitement that awaits these students as they embark on their journey of engineering excellence. The department looks forward to guiding their growth.



Faculty Development Program Itinerary & Activities

Inaugural Session
FDP cum Workshop
Fundamental Analysis
Mechanistic Insights
Metal Degradation
Advanced Material Analysis

Core Collaborations

Interdepartmental Initiative
Mechanical Engineering
Physics Department
Academic Synergy
Future-Oriented Research

Key Dignitaries &

Mentors

Prof. (Dr.) Narpinder Singh
Dr. Naresh Sharma
Prof. (Dr.) Fateh Singh Gill
Dr. Kapil Kumar Sharma
Dr. Gopal Ji Sharma
Dr. Manvandra K Singh

Impact & Vision

Material longevity
Industrial sustainability
Cross-disciplinary research
Faculty development
Institutional excellence

Joint FDP cum Workshop on Metal Degradation Unites Mechanical Engineering and Physics Departments

The Departments of Mechanical Engineering and Physics at Graphic Era (Deemed to be) University successfully inaugurated a highly anticipated One-Week Faculty Development Program (FDP) cum Workshop titled “Advanced Analysis of Metal Degradation from Fundamental to Mechanistic Insights (AAMDFMI)”. Scheduled from 25th to 30th August 2025, the event commenced with great enthusiasm, setting a high benchmark for interdisciplinary academic collaboration on campus.

AAMDFMI: INSIGHTS

25-30 August 2025



The successful commencement of the ceremony was made possible through the vision and leadership of the university's administration. Deep gratitude is extended to Hon'ble Vice Chancellor, Prof. (Dr.) Narpinder Singh, and Hon'ble Registrar, Dr. Naresh Sharma, for their invaluable support.

Special appreciation goes to Prof. (Dr.) Fateh Singh Gill (HoD, Physics) and Dr. Kapil Kumar Sharma (HoD, ME), alongside the organizing secretaries, Dr. Gopal Ji Sharma and Dr. Manvandra K Singh, for seamlessly executing the inaugural session and inspiring the gathered participants with their encouraging words.

Targeted at faculty members, researchers, and scholars, the week-long program is designed to bridge the gap between fundamental physics and practical mechanical engineering concepts. By delving into the mechanistic insights of how metals degrade under various stressors, the workshop aims to foster future-oriented discussions, robust research collaborations, and innovative methodologies to tackle material failure in industrial applications.



Industrial Visit to Sara Sae Private Limited Enhances Real-World Engineering Insights

The Department of Mechanical Engineering at Graphic Era (Deemed to be) University successfully organized an immersive industrial visit on September 12, 2025, for its second and third-year students. The destination for the excursion was the manufacturing facilities of Sara Sae Private Limited, a trip aimed at providing young engineering minds with critical, firsthand exposure to contemporary industrial ecosystems and heavy mechanical operations.

BRIDGING CLASSROOM & INDUSTRY

12 September 2025



The excursion served as a vital foundational platform for bridging the gap between theoretical textbook curriculum and practical corporate engineering applications. During the tour, students gained highly valuable insights into the architecture of advanced mechanical systems, standard operating procedures, and the stringent safety protocols that govern modern shop floors.

The department extends its sincere gratitude to the management and staff at Sara Sae Pvt. Ltd. for their warm hospitality and for providing highly insightful technical interactions that enriched the students' perspective on future careers.

Special recognition and appreciation go to the dedicated faculty team—Dr. Vineet Kumar, Mr. Paritosh Mishra, and Dr. Brijesh Prasad—for their meticulous efforts in coordinating the logistics and mentoring the student cohort throughout this rewarding industrial visit.

Visit Activities & Topics

- Industrial Site Tour
- Real-world Practices
- Mechanical Systems
- Safety Protocols
- Professional Work Environments
- Technical Interactive Sessions

Core Objectives

- Bridging Theory-Practice Gap
- Experiential Learning
- Industry-Academia Alliance
- Career Readiness
- Observational Learning

Target Groups

- 2nd Year B.Tech Students
- 3rd Year B.Tech Students
- Department Faculty Mentors
- Industry Experts

Coordinators & Mentors

- Dr. Vineet Kumar
- Mr. Paritosh Mishra
- Dr. Brijesh Prasad

Impact & Vision

- Industry applications
- Future-ready graduates
- Professional networking
- Enhanced technical acumen
- Departmental commitment



Department of Mechanical Engineering Observes Annual Vishwakarma Puja with Traditional Fervor

Ritual Activities & Highlights

Annual Puja Ritual
Sacred Workshop Ceremony
Homage to Lord Vishwakarma
Worship of Tools & Machinery
Departmental Gathering
Community Feast/Prasadam

Core Values Celebrated

Divine Craftsmanship
Collective Teamwork
Professional Dedication
Creative Engineering
Cultural Continuity

Distinguished Guests

Prof. (Dr.) Santosh Saraf
Dr. Naresh Kumar Sharma
Dr. Kapil Kumar Sharma
Dr. Sudhir Joshi

Outcomes & Impact

Strengthened collective spirit
Inspiration for innovation
Ethical engineering practices
Interdepartmental harmony
Preservation of traditions

Following its rich annual tradition, the Department of Mechanical Engineering at Graphic Era (Deemed to be) University solemnly observed Vishwakarma Puja on September 17, 2025. The auspicious ceremony commenced at 10:00 AM within the central confines of the University Workshop, serving as a unifying occasion for faculty, staff, and students alike to pause and honor the divine architect.

HONOURING THE DIVINE ARCHITECT

17 September 2025



The sacred occasion was greatly elevated by the esteemed presence of several key university dignitaries. The department was honored to welcome the Hon'ble Pro Vice Chancellor, Prof. (Dr.) Santosh Saraf, alongside the Hon'ble Registrar, Dr. Naresh Kumar Sharma. Joining them in the rituals were Dr. Kapil Kumar Sharma (HoD, Mechanical Engineering) and Dr. Sudhir Joshi (HoD, Aerospace Engineering), standing together with the academic community. This revered annual ritual does more than pay traditional homage to Lord Vishwakarma, the divine architect and master engineer; it actively rejuvenates the department's collective spirit of innovation, craftsmanship, and structural teamwork. By invoking blessings upon the tools, labs, and minds that drive the department forward, the event concluded with shared wishes for unparalleled skill, creativity, and success for everyone embarking on their professional and engineering journeys.



GEU RevFest 2025: Flagship Cars & Bikes Show Draws Massive Crowds

The campus of Graphic Era (Deemed to be) University came alive with the roaring sound of high-performance engines, vibrant energy, and unmatched enthusiasm as the Department of Mechanical Engineering successfully hosted GEU RevFest 2025. Organized in exclusive collaboration with Cars & Coffee Dehradun, the premium, one-day automotive exhibition turned the department into a central hub for cutting-edge automotive design and engineering excellence.

FUELING PASSION AND INNOVATION

04 October 2025



The mega event witnessed an incredible turnout, featuring a spectacular display of over 60 bespoke cars and 40 elite superbikes. RevFest 2025 served as a unique experiential melting pot, effectively bringing together seasoned industry professionals, local automobile enthusiasts, and students who share a deep, deep-seated passion for automotive engineering, powertrain mechanics, and structural innovations.

A special note of appreciation is extended to Dr. Kapil Kumar Sharma (HoD, Mechanical Engineering) and faculty coordinator Mr. Yatharth Joshi for their institutional guidance. The roaring success of the festival was made possible by the tireless dedication of the student organizing committee—led by Dikshen Dogra, Lakhvir Singh, and Achyut Pant—along with a powerhouse team of student volunteers. Events like RevFest continue to underline the department's core commitment to nurturing platforms that bridge technical education with real-world automotive passion and collaboration.

Exhibition Highlights & Features

- Flagship Automobile Show
- 60+ Cars on Display
- 40+ Superbikes Showcased
- Automotive Design Systems
- Engine Acoustics & Mechanics
- Performance Tuning Displays

Key Collaborations

- Cars & Coffee Dehradun
- Industry Professionals
- Automobile Enthusiasts
- Community-Campus Sync

Organizing Team & Leaders

- Dr. Kapil Kumar Sharma (HoD)
- Mr. Yatharth Joshi (Faculty)
- Dikshen Dogra (Student Lead)
- Lakhvir Singh (Student Lead)
- Achyut Pant (Student Lead)

Outcomes & Impact

- Fueling automotive passion
- Hands-on engineering insight
- Event management skills
- Industry-student networking
- Departmental innovation footprint



Visit Activities & Facilities

Interactive Laboratory Tour
3D Printing Lab Exploration
CAD/CAM Centre Tour
Automotive Workshop
Insights
Robotics Lab Demonstrations
Technology-Creativity
Integration

Core Objectives

Igniting Scientific
Curiosity
Inspiring Future
Engineers
School-University
Outreach
Career Path Orientation
Fostering Innovation

Key Coordinators & Mentors

Mr. Yatharth Joshi
Dr. Neeraj Sengar
Mr. Durgeshwar Singh

Outcomes & Impact

Community
engagement
Early STEM exposure
Nurturing young
innovators
Career counseling
Institutional hospitality



Department Hosts CST School Herbertpur for Interactive Engineering Lab Tour

On November 1, 2025, the Department of Mechanical Engineering at Graphic Era (Deemed to be) University had the distinct privilege of hosting Class 12th students from CST School, Herbertpur. The outreach visit was designed to provide the senior secondary school students with an exciting, interactive window into the world of higher technical education and advanced engineering systems.

IGNITING YOUNG MINDS TO INNOVATE

1 November 2025



During their time on campus, the enthusiastic young visitors explored several of the department's cutting-edge facilities, including the 3D Printing Lab, the CAD/CAM Centre, the Automotive Workshop, and the high-tech Robotics Lab. Throughout the tour, the students witnessed firsthand how creativity seamlessly merges with technology to drive the modern engineering landscape.

The entire visit was seamlessly coordinated and guided by the dedicated faculty team of Mr. Yatharth Joshi, Dr. Neeraj Sengar, and Mr. Durgeshwar Singh, whose mentorship aimed to spark scientific curiosity and inspire these young minds to pursue innovation-driven professional careers. The department extends its heartfelt gratitude to the students and accompanying teachers of CST School, Herbertpur, for their outstanding participation and vibrant interest in the field of mechanical engineering.

Expert Lecture on 'Bridging Technology and Business'

As part of the Bureau of Indian Standards (BIS) Chapter Activity, the Department of Mechanical Engineering at Graphic Era (Deemed to be) University successfully hosted an insightful 6-hour expert lecture titled "Bridging Technology, Business, and Standards in Management." Held on 12th November 2025 at Lecture Theatre M1, the offline event drew a packed audience, comprising 120 student participants, 8 faculty members, and external delegates eager to understand how industrial operations integrate with global business systems.

STANDARDIZATION DRIVING THE FUTURE

12 November 2025



The intensive session was delivered by Mr. Manvendra, Director at Inc, a highly distinguished strategic insights and advisory professional carrying more than two decades of corporate leadership experience at global firms like Escalent, EY, and Capgemini. Coordinated seamlessly by faculty lead Dr. Brijesh Prasad and student coordinator Anjas Asrani, the session focused heavily on illuminating the critical role that Indian Standards (IS) play in establishing process consistency, safety, and operational excellence within modern industrial frameworks.

Mr. Manvendra broke down complex industrial administration mechanisms, highlighting how essential management frameworks—such as environmental compliance (ISO 14001) and risk control (ISO 31000)—act as enablers of innovation rather than rigid restrictions. He further demonstrated how cutting-edge technologies like artificial intelligence, data analytics, and automation are actively transforming modern compliance systems. By bridging academic technical knowledge with practical corporate strategies, the lecture successfully equipped future engineers with the essential traits of quality consciousness and sustainable leadership necessary to thrive in tomorrow's competitive global market.

Lecture Activities & Topics

BIS Chapter Activity
Strategic Insights Lecture
Quality Management Systems
Industrial Standards & Codes
Technology-Business Synergy
Interactive Q&A Session

Technical Concepts

IS/ISO 9001:2015 (QMS)
IS/ISO 14001:2015 (EMS)
IS/ISO 45001:2018 (OH&S)
IS/ISO 31000:2018 (Risk Management)
Standardization & Compliance

Learning Approach

Practical Industrial Context
Real-world Case Studies
Cross-Disciplinary Insight
Managerial Acumen Build
Quality Consciousness Focus

Outcomes & Vision

Global Competitiveness
Sustainable Business Growth
Corporate Decision-Making
Professional Ethics & Culture
Industry-Academia Alignment



Alumni Interaction Session on 'ESG in Manufacturing' Connects Mechanical Students with Ashok Leyland Expert

The Department of Mechanical Engineering at Graphic Era (Deemed to be) University, Dehradun, successfully organized an enriching Alumni Interaction Session on 12th March 2026. The primary objective of the session was to bridge the gap between classroom academic theories and real-world industrial operations by connecting current engineering batches with accomplished professionals who walked the same campus paths.

SUSTAINABILITY SHAPING THE FUTURE

12 March 2026

Session Activities & Topics

Alumni Interaction Session
Sustainability Reporting
Green Manufacturing
Eco-Friendly Processing
Interactive Q&A Segment
Industry Insights Exchange

Technical Concepts

Environmental Dimension (ESG)
Social & Workplace Safety
Governance & Compliance
Carbon Emission Reduction
Alternative Fuel Tech

Learning Approach

Alumni-Led Mentorship
Real-Life Case Studies
Practical Application
Adaptability Focus
Continuous Learning

Outcomes & Impact

Sustainable Future
Corporate Responsibility
Industry-Academia Collaboration
Ethical Decision-Making
Long-Term Profitability



The session featured a proud graduate of the mechanical engineering batch of 2012, Mr. Raghvendra Lal, who currently serves as a Divisional Manager at Ashok Leyland Ltd., Pantnagar. Returning to his alma mater, Mr. Lal delivered an expansive address centered around the highly contemporary theme of "ESG (Environmental, Social, and Governance) in Manufacturing Industries," drawing enthusiastic participation from students eager to gain a competitive edge for their future careers. Mr. Lal broke down how ESG principles are actively transforming global production lines, transitioning from mere compliance metrics into core strategic pillars that drive corporate reputation and operational efficiency. He shared practical examples of clean technology investments—such as electric vehicles and alternative fuel systems—while outlining the equal weight given to employee safety, transparent management, and data analytics in modern mechatronics ecosystems. The session concluded with an active Q&A round where Mr. Lal advised students to pair their core technical acumen with strong soft skills and a mindset for sustainable innovation to succeed in the evolving job market.



Alumni Interaction Session on 'Manufacturing Sector Career Paths' Features Hero MotoCorp Expert

The Department of Mechanical Engineering at Graphic Era (Deemed to be) University, Dehradun, organized an insightful and highly motivating Alumni Interaction Session on 1st April 2026. Explicitly tailored for B.Tech Mechanical Engineering students, the event was structured with the primary objective of bridging the gap between classroom academic theories and real-world industrial systems by providing a comprehensive roadmap for corporate success.

ROADMAP FOR PROFESSIONAL SUCCESS

1 April 2026



The session featured an accomplished alumnus from the Mechanical Engineering batch of 2018, Mr. Vaibhav Mishra, who currently serves as a Deputy Manager at Hero MotoCorp, Haridwar—one of India's premier automobile manufacturing organizations. Returning to his alma mater, Mr. Mishra shared valuable highlights from his professional journey, emphasizing that persistence, calculated skill development, and cross-domain adaptability are vital traits needed to navigate the transition from academic life to a corporate setup. During his address, Mr. Mishra provided a vast overview of modern manufacturing paths, clarifying specific roles such as production, quality control, maintenance, design, and supply chain logistics. He outlined how advancements like automation, robotics, and Industry 4.0 are actively reshaping workplace dynamics. Stressing that technical fundamentals must be paired with digital literacy, programming basics, and hands-on internship experience, he urged students to look at continuous training and certifications as long-term growth enablers. The day concluded with an active placement-focused Q&A session, leaving the next generation of engineers motivated and strategically prepared for the industrial landscape.

Session Activities & Topics

Alumni Interaction Session
Career Paths Discussion
Manufacturing Sector Roles
Industry Expectations
Interactive Q&A Segment
Placement Prep Strategy

Technical Concepts

Industry 4.0 Systems
Digital Manufacturing
CAD Tools & Prototyping
CNC Machining Functions
Smart Manufacturing Data

Learning Approach

Alumni-Led Mentorship
Practical Internship

Integration
Technical Skill Mapping
Analytical Problem-Solving
Career Planning
Roadmap

Outcomes & Vision

Economic & Industrial Growth
Industry-Academia Synergy
Graduate Employability
Continuous Professional Learning
Adaptive Leadership Build



Robo War at GRAFEST 2026 Unleashes High-Octane Innovation in Mechanical Track Arena

Tournament Activities & Topics

Flagship Robo War Event
Mechanical Track Arena
Robot Combat Matches
High-Impact Collisions
Technical Inspections
48-Hour Live Arena Run

Technical Concepts

Robotics & Design
Fabrication
Structural Integrity
Actuator & Motor Control
Power Transmission
Systems
Material Selection Criteria
Embedded System Layouts

Learning Approach

Hands-on Technical Build
Systems-Thinking
Strategy
Interdisciplinary
Programming
Design Optimization
Faculty-Led Mentorship

Impact & Highlights

Defense Industry
Readiness
Project Management Skills
Cross-Campus
Collaborations
Competitive Innovation
Spirit
Practical Skill Cultivation

The campus of Graphic Era (Deemed to be) University transformed into a hotbed of mechanical combat and engineering prowess during the flagship Robo War [GRAFEST 2026]. Organized with great energy by the Department of Mechanical Engineering from 15th to 16th April 2026, the intense 48-hour offline competition was hosted at the dedicated Mechanical Department Track Arena. The event drew an exceptional crowd, bringing together 42 student competitors, 22 faculty mentors, and 12 external participants for an unforgettable display of tactical robotic design.

ROBO-WAR

15-16 April 2026



The primary objective of Robo War was to challenge engineering minds to design, fabricate, and operate heavy-duty combat robots capable of surviving brutal, high-impact collisions. Coordinated by faculty leaders Dr. Kapil Sharma and Dr. Neeraj Sengar, alongside student leads Mr. Tanay Kumar and Mr. Madan Singh, the arena forced students to merge classroom knowledge with real-world constraints—testing structural strength, component safety, and remote actuator programming under extreme duress.

Beyond the technical chaos, the event offered critical project management benefits, requiring teams to optimize limited materials and execute precise combat strategies. The interdisciplinary nature of the field meant students seamlessly integrated mechanical setups with advanced electronics. Proving its reach as a premium regional attraction, the tournament concluded with a thrilling finale sequence. Team Wagh from Graphic Era Hill University secured the ultimate championship victory and a 50,000 INR prize, followed by Team Aravat (GEU) taking the 1st Runner-up title (30,000 INR), and Team Robosapiens from Lovely Professional University claiming the 2nd Runner-up honor (20,000 INR).



DEPARTMENT HIGHLIGHTS



GEU Mechanical Engineering Secures NBA Accreditation

Graphic Era University's B.Tech in Mechanical Engineering has achieved prestigious National Board of Accreditation status valid through December 31, 2028. Following a rigorous evaluation by an expert team earlier this year, the landmark certification honors the department's steadfast commitment to outcome-based education and industry-aligned curricula. This continuous accreditation streak underscores GEU's robust research ecosystem and premier global standards, paving the way for enhanced student employability and world-class engineering education.

Four GEU Professors Named Among World's Top 2% Scientists

Four esteemed faculty members from the Department of Mechanical Engineering have achieved global acclaim, securing prestigious spots in the "Top 2% Scientists in the World (2025)" list by Elsevier and Stanford University. This elite recognition celebrates the groundbreaking research contributions of Dr. Lalit Ranakoti, Dr. Desh Bandhu Singh, Dr. Rakesh Chandmal Sharma, and Dr. Aqueel Ahmad. Their academic excellence continues to elevate the university's research profile, setting an inspiring, high-impact standard for peers and students worldwide.



GEU Mechanical Engineering Wins Special Recognition at USSTC

The Department of Mechanical Engineering has clinched special recognition at the 20th Uttarakhand State Science & Technology Conference for its portfolio of cutting-edge innovations. Hosted at Graphic Era University, the prestigious event saw student-faculty teams captivate distinguished scientists, guests, and evaluators with advanced models and technical prototypes. Lauded for real-world engineering excellence, the department's brilliant showcase sets a powerful new benchmark in research, celebrating the profound creativity and hard work driving GEU's scientific ecosystem.



GEU Motorsports Club Clinches Multiple Podiums at National Racing Challenge

Team E-Square from Graphic Era University achieved remarkable national acclaim at the Formula Kart Design Challenge (FKDC 2025) held at Kari Motor Speedway, Coimbatore. Competing fiercely against over 65 top engineering institutions nationwide, the team showcased an innovative, custom-built electric go-kart. Engineered with precision. Demonstrating elite technical and commercial mastery, GEU also captured 2nd place for Cost Optimization and 3rd in the Business Presentation round.



DEPARTMENT HIGHLIGHTS

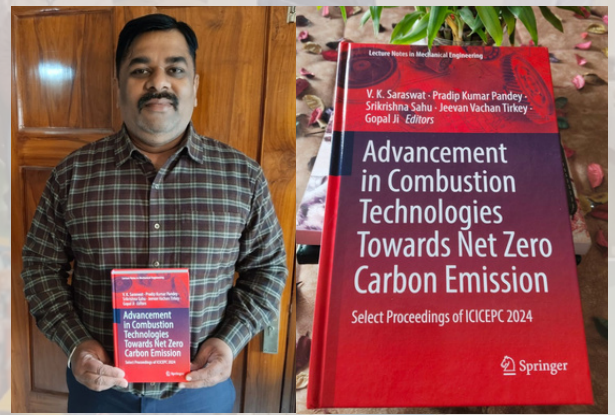


GEU Alumnus Shardul Shandilya Redefines Excellence

Graphic Era University is celebrating the extraordinary journey of mechanical engineering alumnus Shardul Shandilya (2013-17 batch), a powerhouse of discipline and versatility. Beyond corporate engineering success with top multinational firms, Shardul has represented India internationally in shooting sports and served as a global cultural ambassador. Now contributing to the defense services, his stellar trajectory seamlessly blends technical prowess with national service, standing as a brilliant inspiration for students worldwide.

Academic Milestone: GEU Professor Edits Springer Book

Dr. Gopal Ji Sharma, Associate Professor at Graphic Era University, has achieved a remarkable academic milestone by serving as the Corresponding Editor for a prestigious new Springer book. Part of the Lecture Notes in Mechanical Engineering series, the text focuses on advanced combustion technologies driving net-zero carbon emissions. Led by Hon'ble Prof. V. K. Saraswat (Member, NITI Aayog & Chancellor, GEU), this high-impact publication showcases cutting-edge sustainable engineering research, bridging critical global industry-academia innovations.



Two GEU Professors Join Prestigious Springer Nature Journal

In a major global academic breakthrough, Dr. Manvandra Kumar Singh (Associate Professor) and Dr. Royal Madaan (Assistant Professor) from Graphic Era University's Mechanical Engineering Department have been appointed to the Editorial Board of Scientific Reports. Published by the prestigious Springer Nature, the high-impact journal selected the duo based on their outstanding research excellence. This elite dual appointment spotlights GEU's rising global research footprint and unwavering commitment to advancing scientific knowledge.



Quarter-Century of Excellence: Mr. Navneet Raturi at GEU

The Department of Mechanical Engineering at Graphic Era (Deemed to be University) recently celebrated a monumental milestone, honoring Senior Lab Staff Mr. Navneet Raturi for 25 years of tireless service. Throughout his distinguished tenure, Mr. Raturi has been an indispensable pillar of the department, significantly fostering laboratory development and student success. The university-wide tribute acknowledged his unwavering commitment, celebrating his profound impact on the institution's growth and his respected legacy of dedication.



TOP PLACEMENTS

Graphic Era
deemed to be University
DEHRADUN

Congratulations

ABUL HASAN ZAIDI
B.Tech Mechanical Engineering | Batch 2022-26

for getting placed at

UNO MINDA

Graphic Era
deemed to be University
DEHRADUN

Congratulations

SURYANSH YADAV
B.Tech Mechanical Engineering | Batch 2022-26

for getting placed at

UNO MINDA

Graphic Era
deemed to be University
DEHRADUN

Congratulations

ANKIT
B.Tech Mechanical Engineering | Batch 2022-26

for getting placed at

UNO MINDA

Graphic Era
deemed to be University
DEHRADUN

Congratulations

ARCHIT SAXENA
B.Tech Mechanical Engineering | Batch 2022-26

for getting placed at

UNO MINDA

Graphic Era
deemed to be University
DEHRADUN

Congratulations

VIVEK KUMAR
B.Tech Mechanical Engineering | Batch 2022-26

for getting placed at

COLDMAN
Warehousing & Distribution

Graphic Era
deemed to be University
DEHRADUN

Congratulations

LAKSHAY CHAUHAN
B.Tech Mechanical Engineering | Batch 2022-26

for getting placed at

RAProcMart

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Congratulations

SHANU
B.Tech Mechanical Engineering | Batch 2022-26

for getting placed at

RAProcMart

Graphic Era
deemed to be University
DEHRADUN

Congratulations

SHRUTI S. KHANDELWAL
B.Tech Mechanical Engineering | Batch 2022-26

for getting placed at

RAProcMart

Graphic Era
deemed to be University
DEHRADUN

Congratulations

YUVRAJ SHAHI
B.Tech Mechanical Engineering | Batch 2022-26

for getting placed at

RAProcMart

Graphic Era
deemed to be University
DEHRADUN

Congratulations

Priyanshu Kudiyal
B.Tech ME
Batch 2022-26

for getting placed at

JAYANITA
Department of Mechanical Engineering

Graphic Era
deemed to be University
DEHRADUN

Congratulations

Ayush Rawat
B.Tech ME
Batch 2022 - 26

for getting placed at

amber
Department of Mechanical Engineering

Graphic Era
deemed to be University
DEHRADUN

Congratulations

Anubhav Kant Semwal
B.Tech ME
Batch 2022 - 26

for getting placed at

amber
Department of Mechanical Engineering

STUDENT ACHIEVEMENTS



Gunjan's Healthcare App Shines at All-India NCC Innovation Meet
VIJAYAWADA — In a major triumph for Graphic Era University, third-year mechanical engineering student Cdt. Gunjan Rawat led her team to stellar acclaim at the All India Idea and Innovation Competition. Representing the Uttarakhand Directorate, the team showcased an innovative "Healthcare Application" engineered to deliver critical medical support to remote military personnel and underserved civilians. The brilliant, high-impact project was shortlisted among Uttarakhand's top two innovations, earning immense praise from the Board of Officers for its profound social relevance.

Anjas Clinches Best Poster Award at IIT Roorkee Symposium

Mr. Anjas Asrani, a PhD scholar from Graphic Era University's Department of Mechanical Engineering, has won the prestigious Best Poster Award at the International Symposium on Innovations in Molded Products. Hosted by the Indian Institute of Technology Roorkee, the global forum recognized Asrani's groundbreaking research in advanced molded product technologies. University officials lauded both the scholar and his research supervisor, Dr. Brijesh Prasad, celebrating the milestone as a testament to impactful, cutting-edge academic mentorship.



Vivek Kumar Secures Core Placement at Coldman Logistics

We celebrate the stellar placement of Mr. Vivek Kumar, a standout B.Tech Mechanical Engineering student (2022-26 batch), at Coldman Logistics Pvt Ltd. Highlighting his deep technical expertise and perseverance, the corporate breakthrough earned him a prestigious felicitation from GEU's Hon'ble President, Prof. (Dr.) Kamal Ghanshala. The university commended Vivek's dedication alongside the unwavering mentorship of the mechanical department, wishing him an impactful, blazing career trajectory ahead.

Deepanshu Sharma Clinches Podium Finish at Athletic Meet

Showing phenomenal endurance and razor-sharp focus, third-year mechanical engineering student Mr. Deepanshu Sharma secured a spectacular third place in the grueling 1500-meter race at the Athletic Meet 2026. The podium finish underscores Graphic Era University's vibrant culture of holistic student development, where academic rigor seamlessly blends with elite sportsmanship. University leaders, including Hon'ble President Prof. Dr. Kamal Ghanshala and Vice Chancellor Prof. Dr. Narpinder Singh, lauded Deepanshu's remarkable grit, celebrating his victory as an inspiration for the entire campus.



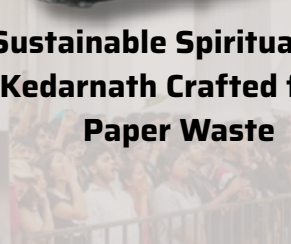
Suryansh Yadav Secures BEL Engineer Role

In a monumental achievement for Graphic Era University, mechanical engineering student Mr. Suryansh Yadav (2022-2026 batch) has secured a prestigious government role as an Engineer Trainee at Bharat Electronics Limited. Joining BEL, a premier Navratna Public Sector Enterprise under the Ministry of Defence, marks a spectacular milestone. The department celebrated Yadav's technical competence and unwavering perseverance, calling his defense-sector breakthrough a powerful inspiration for peers and a testament to GEU's elite academic standards.





A collage of three images. The top image shows a man with a beard and glasses, wearing a grey jacket and light blue jeans, riding a black motorcycle. He is holding a red folder or book. The background is a blurred outdoor setting with a large American flag and a sign that says "amazon". The middle image shows a building with a prominent dome and a clock tower, possibly a church or a government building. The bottom image shows a large, rectangular cake decorated with a grid pattern of white icing. On top of the cake is a small, detailed model of the building seen in the middle image. The cake is also decorated with small figurines and tools.



Sustainable Spirituality Kedarnath Crafted from Paper Waste



GEU Racing Go Kart



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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566/6, Bell Road, Society Area, Clement Town, Dehradun, Uttarakhand
PIN : 248002

1800 270 1280

hod.mechanical@geu.ac.in , 9058514181



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