# Graphic Era
## Deemed to be University
DEHRADUN

APPLY NOW

# DEPARTMENT OF CIVIL ENGINEERING

Programs Offered —

- **B.Tech** Civil Engineering
- **B.Tech** CE with specialization in Construction Management / GIS and Remote Sensing
- **B.Tech** CE for Working Professionals
- **M.Tech** Structural Engineering for Working Professionals

BROCHURE 2026-27

# About the University

## A Legacy of Excellence

Founded by Prof. (Dr.) Kamal Ghanshala with a vision to transform youth through quality education, Graphic Era began its journey in 1993 and evolved into Graphic Era Institute of Technology (GEIT) in 1997. In 2008, it was granted Deemed to be University status by the Government of India.

Today, Graphic Era stands as a NAAC 'A+' accredited university, ranked 52nd in Engineering, 52nd in Management, and 48th in the University Category by NIRF, Ministry of Education. With 6 NBA-accredited programs, the university fosters an industry-academia partnership through collaborations with Tata Technologies and IBM and hosts a DST-sponsored Technology Business Incubator for startups.

With global academic partnerships and student exchange programs across US, Europe, Australia, and Asia, Graphic Era provides a world-class learning experience. Its alumni shine at Apple, Google, Microsoft, HSBC, TCS, Wipro, Infosys, and the Indian Armed Forces, shaping the future with innovation and excellence.

**Be a part of this legacy!**

# Welcome to the Department of Civil Engineering

The Department of Civil Engineering at Graphic Era (Deemed to be University), Dehradun. Established in 2007, is dedicated to providing world-class education and fostering innovation in civil engineering. With a highly qualified faculty, cutting-edge laboratories, and strong industry collaborations, we emphasize both theoretical knowledge and practical skills to prepare students for real-world challenges.

Our programs cover diverse disciplines, including structural engineering, transportation planning, sustainable construction, and smart infrastructure. We offer specializations in Geoinformatics, blending traditional civil engineering with geospatial technologies for roles in infrastructure, urban planning, and disaster management, and Construction Management, combining core engineering with project management, cost estimation, and resource planning for leadership in large-scale projects.

# Our Department

## Vision

To be internationally recognized as a fountainhead of enthusiastic civil engineers, eager to reach the frontiers of technology, development, entrepreneurship with a constant awareness of their social responsibilities and goals.

## Mission

**M1:** Imparting Knowledge through well-established through well-established and standard academic and evaluation methods.

**M2:** Skill development through creative new ideas with interdisciplinary and research oriented experimentation in laboratories, field and Industry Visits.

**M3:** Transforming students, beyond academics to professionalism through Academic, Industrial, Entrepreneurial and Managerial expert interactions.

**M4:** Revision and Recheck of imparting knowledge and skills to make the student industry ready and futuristic professional.

**M5:** Inculcate the instinct of continuing education and research with an ethical attitude for implementation of attained knowledge and skills to better human living standards and nature at Local, National and Global Levels.

# Key Facts & Achievements

## RANKINGS

**#48** University Category

**#52** Engineering Category

**#52** Management Category

Source: **NIRF 2025 Ranking** Ministry of Education, Govt. of India

**#02** in India for Research Quality

**#03** in India for Engineering

**#04** in India for Life Sciences

**#04** in India for Business & Economics

**#16** in India for Computer Science

**#645**
World University Ranking

THE World University Rankings 2026

**#41** Sustainability Rank in India

**#138** Southern Asia 2026

**Diamond**
I-Gauge Rating

QS WORLD UNIVERSITY RANKINGS

## ACCREDITATIONS

### NAAC A+
**Grade Accredited**

Source: National Assessment & Accreditation Council (NAAC)

### UGC, AICTE, BCI, NMC, INC

Programs approved by University Grants Commission **(UGC)**, All India Council for Technical Education **(AICTE)**, Bar Council of India **(BCI)**, National Medical Commission **(NMC)**, and Indian Nursing Council **(INC)**

### 06 NBA
**Courses Accredited**

The only University in the region to have **B.Tech (CSE, ECE, ME, CE, Biotechnology) and MBA** accredited by NBA

Source: National Board of Accreditation **(NBA)**

## STARTUPS

**₹500+ Cr** Valuation of Startup's

**100+** Incubated Startups

**90+** Startups Recognised

**8000+** Beneficiaries in 2025

**1000+** Interns Enrolled

## ACADEMIC SNAPSHOT

**900+** Distinguised Faculty Members

**14K+** Students

**22** Departments (8 Engineering & 14 Non-Engineering)

**100+** Programmes

## RESEARCH & INNOVATION

### Top 2%
34 faculty members of Graphic Era University included in Stanford–Elsevier–list.

### ₹2648.99 Lac
Research Project Funding from leading government agencies including DST, DBT, SERB, CSIR, UCOST, MoEF&CC and ISRO.

### ₹3472.17 Lac
Consultancy Project Funding

### 15500+
Research Publications

### 240+
Patents Granted

### 2100+
Patents Published

# Courses Offered

## Under Graduate Courses

### B.Tech in Civil Engineering

Specializations Offered —

- **Construction Management**
- **GIS & Remote Sensing (RS)**

**Duration —**
4 Years/ 8 Semesters (after Intermediate)
3 Years/ 6 Semesters (after Diploma)

**Eligibility —**
All interested candidates should have passed Class XII from a recognized board of examination with Physics, Mathematics and Chemistry or equivalent or as per AICTE guidelines or Diploma in Civil Engineering for lateral entry students.

### B.Tech in Civil Engineering (Working Professionals)

**Duration —**
3 Years/ 6 Semesters (after Diploma)

**Eligibility —**
All interested candidates should have passed Diploma from a recognized institute as per AICTE guidelines and should fulfill all the criteria as being laid down by AICTE for working professional.

## Career Paths

Graduates of Civil Engineering have a vast range of career opportunities in sectors such as infrastructure development, urban planning, and environmental engineering. Some prominent career roles include:

- **Structural Engineer**
- **Construction Project Manager**
- **Geotechnical Engineer**
- **Transportation Engineer**
- **Environmental Consultant**
- **GIS & Remote Sensing Specialist**
- **Research & Development Professional**
- **Government & Public Sector Engineer**

## Industries to Explore

- **Government Departments CPWD, NHAI, PWD, Metro Rail, Railways)**
- **Private Construction & Real Estate Companies (L&T, TATA Projects, Shapoorji Pallonji, GMR, Afcons)**
- **Infrastructure & Consultancy Firms (AECOM, Atkins, Jacobs)**
- **IT & BIM Companies (Autodesk, Bentley Systems, Trimble)**
- **Oil & Gas, Power Sector (Reliance, ONGC, NTPC)**

## Post Graduate Courses

# M.Tech in Structural Engineering

**Duration —**
2 Years / 4 Semesters

**Eligibility —**
B.Tech (CE), B.E relevant discipline followed by Personal Interview.

# M.Tech in Structural Engineering (Working Professionals)

**Duration —**
2 Years/ 4 Semesters

**Eligibility —**
B.Tech (CE), B.E in relevant discipline and should fulfill all the criteria as being laid down by AICTE for working professional.

# Doctoral Program

Ph.D. in Civil Engineering (Research-focused program providing opportunities for academic and industry-based innovations)

**Eligibility —**
Master's Degree from any AIU/UGC/AICTE recognized University/ Institutions or any other qualification recognized as equivalent thereto in the fields of study notified from time to time by the University.

## Career Paths

- **Assistant Professor in universities or engineering colleges**
- **Ph.D. in Civil Engineering for deeper research and better academic positions**
- **Research Associate in Govt. institutions.**

## Industries to Explore

- **CSIR**
- **IITs**
- **NITs**
- **DRDO**
- **ISRO**

# Meet Our Experts

| Name | Designation | Qualification | Area of Expertise |
|---|---|---|---|
| **Dr. Keerat Kumar Gupta** | Professor & Head | Ph.D. | Water Resources Engineering |
| **Dr. Ajay Gairola** | Professor | Ph.D. | Computationla Fluid Dynamics & Computational Wind Engineering |
| **Dr. Sanjeev Kumar** | Professor | Ph.D. | Water Resources Engineering |
| **Dr. Amit Shrivastava** | Professor | Ph.D. | Geotechnical Engineering |
| **Dr. Kishan Singh Rawat** | Professor | Ph.D. | GIS & Remote Sensing |
| **Dr. Deepshikha Shukla** | Associate Professor | Ph.D. | Earthquake Engineering |
| **Dr. G. Murari Krishna** | Associate Professor | Ph.D. | Concrete Technology |
| **Dr. Nitin Mishra** | Assistant Professor | Ph.D. | Water Resources Engineering |
| **Dr. P. Janki Rama Raju** | Assistant Professor | Ph.D. | Structural Engineering |
| **Dr. Bheem Pratap** | Assistant Professor | Ph.D. | Geoenvironmental Engineering |
| **Dr. Karan Singh** | Assistant Professor | Ph.D. | Environmental Engineering |
| **Dr. Pramod Kumar** | Assistant Professor | Ph.D. | Structural Engineering |
| **Dr. Badrinarayan Nath** | Assistant Professor | Ph.D. | Building Science & Technology |
| **Mr. Amit Kumar Sharma** | Assistant Professor | M.Tech. | Construction Management |
| **Mr. Rahul Vaishnav** | Assistant Professor | M.Tech. | Geotechnical Engineering |
| **Mr. Deepak Kumar Singh** | Assistant Professor | M.Tech. | Structural Engineering |
| **Mr. Deepak Bahuguna** | Assistant Professor | M.Tech. | Structural Engineering |
| **Mr. Abhishekh Singh** | Assistant Professor | M.Tech. | Water Resources Engineering |
| **Mr. Vibhor Rajput** | Assistant Professor | M.Tech. | Structural Engineering |
| **Mrs. Nishi Dobriyal** | Assistant Professor | M.Tech. | GIS & Remote Sensing |
| **Mr. Gaurav Singh** | Assistant Professor | M.Tech. | GIS & Remote Sensing |
| **Mr. Kavindra S Dhami** | Assistant Professor | M.Tech. | Transportation Engineering |
| **Ms. Kushboo Uniyal** | Assistant Professor | M.Tech. | Transportation Engineering |

# Student Opportunities and Placement

Kartikey Barthwal

L&T Construction

Ashwini Kumar

SGES

Esha Negi

Jio | bp

# Our Esteemed Alumni

The B.Tech Civil Engineering program helped me develop a strong understanding of infrastructure projects and sustainable construction. The exposure to industry-relevant tools and faculty mentorship played a significant role in my placement at Jio BP."

**Yash Pawar**
Batch 2023 (JIO BP)

My experience in the M.Tech Structural Engineering program was enriching and rewarding. The research opportunities and exposure to advanced construction technologies have immensely contributed to my career growth.

**Puskar Goyal**
Batch M.Tech 2021,
Structure Consultant

The B.Tech Civil Engineering program at Graphic Era provided me with a strong foundation in both theoretical concepts and practical applications. The faculty's expertise and the department's focus on real-world problem-solving helped me transition seamlessly into my professional role.

**Dr. Nikhil Garg**
Batch 2013,
Assistant professor, GEU

Graphic Era's Civil Engineering program provided me with excellent technical knowledge and hands-on experience, making my transition into the industry seamless. The opportunities for research and internships significantly contributed to my professional success at Jio BP.

**Tushar**
Batch 2022 (JIO BP)

# Building Bridges Worldwide:

## MOUs and Global Conferences in Civil Engineering




1. The MoU signing with Ultratech in 2023 aims to strengthen the industry – academic partnership by fostering collaborative research, knowledge exchange, and skill development initiatives. Through this association, students gain access to industry best practices, expert interactions, and enhanced learning opportunities that bridge classroom concepts with real-world applications.
2. The MoU signing with Technonicol in April 2024 focuses on promoting educational engagement, practical internship experiences, and the overall professional development of GEU students. The collaboration enables exposure to advanced technologies, joint academic activities, and industry - driven training modules, equipping learners with the competencies required for contemporary industry demands.
3. The MoU signing with BEML in 2024 outlines GEU's role in hosting one-day workshops on emerging technologies, offering hands - on learning and deep industry insights for students. This partnership encourages innovation, facilitates expert-led sessions, and supports students in developing technical proficiency aligned with evolving industrial trends.

## Strategic Industry Collaborations & MoUs

- MoU with ASSOCHAM GEM
- MoU with Ultratech
- MoU with TECHNONICOL
- MoU with BEML
- MoU with Constructskills
- MoU Cybertech
- MoU with NHAI
- MoU with Sarthy Geotech

# National and International Conferences/ Training Program:




1. International Conference on Advanced Intelligent Sustainable Technologies, Materials and Infrastructure (AISTMI-2025)
2. Mountains at Risk: Addressing Climate change and Securing water resources in the hills of Uttarakhand.
3. Sustainable Water Management Workshop: Exchanged knowledge on water conservation in hilly regions amidst climate change.
4. Geospatial Science Training: ISRO-supported program enhanced skills in remote sensing, GIS, and disaster management.

# Facilities and Infrastructure

## Geotechnical Engineering Lab


The Geotechnical Laboratory in the Department of Civil Engineering at Graphic Era (Deemed to be University) is a hub for academic and research excellence. Equipped with advanced testing facilities, it supports the evaluation of soil properties, including compaction, hydraulic characteristics, compressibility, consolidation, and shear strength. With state-of-the-art cyclic triaxial testing capabilities and an extensive in-house dataset on soil liquefaction, the laboratory offers unparalleled resources for hands-on learning and research. This facility exemplifies the department's commitment to bridging theory and practice, preparing students for success in academia and industry.

## Material Testing Lab

The Material Testing Laboratory in the Department of Civil Engineering at Graphic Era (Deemed to be University) is a premier facility that equips students with practical knowledge of material testing and quality control in construction. The lab provides comprehensive facilities for evaluating the properties of concrete constituents, including cement, aggregates, and concrete in both fresh and hardened states. Students are trained in standardized testing procedures aligned with IS codes, ensuring they develop a thorough understanding of quality assessment for building materials. The laboratory is equipped with advanced instruments to verify concrete quality, offering hands-on learning experiences that bridge theoretical concepts with real-world applications.

In addition to undergraduate and postgraduate coursework, the lab plays a pivotal role in research activities. Students and faculty alike extensively utilize its resources for innovative research projects, fostering a culture of academic and professional excellence.

The Concrete Laboratory highlights the department's commitment to producing skilled civil engineers who excel in both industry practices and research advancements.

# Geomatic Engineering Laboratory

The Surveying Laboratory in the Department of Civil Engineering at Graphic Era (Deemed to be University) is a cutting-edge facility designed to provide students with a strong foundation in engineering measurements. The lab is equipped with advanced instruments, including Total Stations, EDM, Dumpy Levels, Digital Levels, Auto Levels, Tilting Levels, and other essential tools that students extensively use throughout their surveying coursework.

The lab also boasts specialized equipment such as Line Rangers, Chains, Tapes, Pedometers for distance measurement, Digital Theodolites, Vernier Theodolites, and Micro-Optic Theodolites for precise angle and elevation measurements. This diverse array of tools ensures that students develop hands-on expertise in traditional, modern, and advanced surveying techniques.

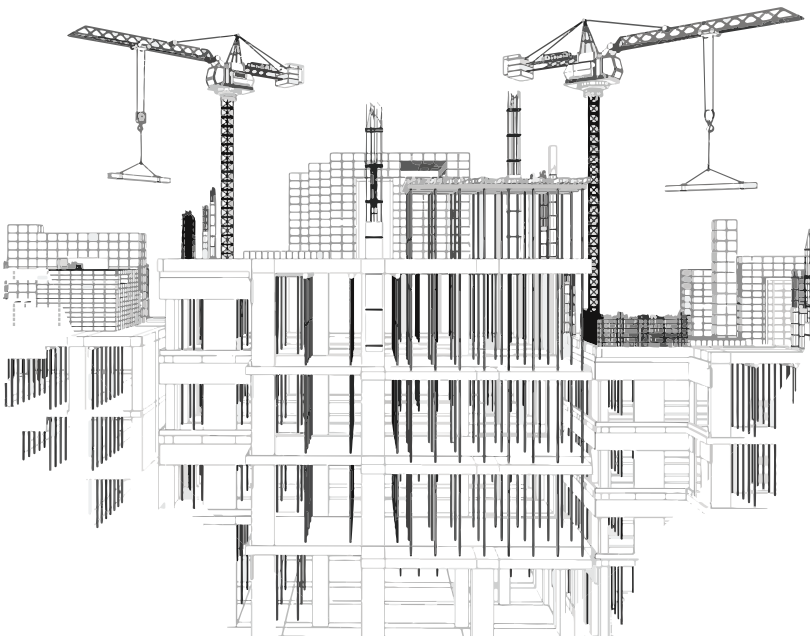
A unique highlight of the program is the annual week-long Survey Camp organized by the department. This immersive field experience allows students to apply their skills in real-world scenarios, promoting teamwork, problem-solving, and practical learning through various surveying exercises.

The Surveying Laboratory and its associated activities underscore the department's commitment to blending theoretical knowledge with practical application, preparing students for success in the dynamic field of civil engineering.

# Fluid Mechanics and Hydrolics Lab

The Fluid Mechanics and Hydraulics Laboratory in the Department of Civil Engineering at Graphic Era (Deemed to be University) is a state-of-the-art facility designed to provide students with practical insights into fluid behavior and hydraulic systems. The lab features advanced experimental setups for quantifying flow in pipes and open channels, enabling students to gain hands-on experience in fluid mechanics principles.

The laboratory is equipped with cutting-edge hydraulic flume setups for conducting experiments on open channel flow, along with apparatus to measure flow velocity in pipes and channels. Students also benefit from facilities to verify Bernoulli's theorem, deepening their understanding of fluid dynamics.



# Transportation Engineering Lab

Transportation engineering lab is equipped with the equipments to test bitumen, aggregate and bituminous mixture and confirm the material requirement as per relevant standards. These tests will help the students to do the quality control and construction of pavements.

# Environmental Engineering Lab

The Environmental Engineering Laboratory in the Department of Civil Engineering at Graphic Era (Deemed to be University) is a cutting-edge facility equipped with advanced analytical instruments for comprehensive environmental testing and analysis.

The lab supports a wide range of experiments, from basic to sophisticated, enabling students to assess physico-chemical and biological parameters in water and wastewater, as well as monitor air pollutants in stacks and the environment.

With state-of-the-art equipment, the laboratory facilitates the precise analysis of pollution parameters in water, wastewater, soil, and air. Students can perform detailed experiments to evaluate water quality, including tests for pH, turbidity, conductivity, hardness, chlorides, sulfates, alkalinity, and more. These practical sessions reinforce theoretical learning and ensure students are well-versed in environmental monitoring and compliance standards.

# Turbulent Wind Tunnel Lab

The Department of Civil Engineering at Graphic Era (Deemed to be University) proudly houses a state-of-the-art multi-fan turbulence wind tunnel, offering students and researchers unparalleled opportunities to analyze wind effects and airflow dynamics. This advanced device is designed to simulate natural wind conditions, making it an indispensable tool for aerodynamics and structural analysis studies.

The wind tunnel comprises cutting-edge components, including multiple propellers, motors, an airfoil, a flat circular disc, a robust tunnel frame, a power system, and a remote drive for precise control. The tunnel's frame features a self-designed

contraction casing, safety mesh, divergent mask, positioning plates, and a housing for fans and motors, ensuring both functionality and safety.

The device utilizes electromagnetic induction to supply the electric current needed for the motors, enhancing efficiency. The airfoil allows precise modulation of airflow at various angles of attack, enabling experiments on aerodynamic behavior under diverse conditions.

This sophisticated facility not only enriches the academic curriculum but also supports advanced research, preparing students to excel in solving real-world challenges in wind engineering and civil infrastructure design

# Remote Sensing and GIS Lab

The GIS and Data Analysis Laboratory in the Department of Civil Engineering at Graphic Era (Deemed to be University) serves as a cutting-edge hub for data interpretation, mapping, and geospatial analysis. Equipped with advanced Geographic Information Systems (GIS) and Remote Sensing software, the lab provides specialized, hands-on training to students and researchers, empowering them to excel in data-driven decision-making and geospatial studies.

The lab supports diverse applications across fields like agriculture, hydrology, urban planning, and sustainable development. Students gain expertise using a suite of industry-standard software tools, including:

- **ArcGIS and ArcMap:** Core components of ESRI's ArcGIS suite, these tools enable users to view, edit, create, and analyze geospatial data while producing high-quality maps and symbolized features.
- **ERDAS:** A powerful image processing software for handling geospatial imagery, vector data, hyperspectral imagery, and LiDAR. It also includes a 3D viewing module (Virtual-GIS) and vector modeling capabilities.
- **ENVI:** The industry standard for advanced image processing and analysis, widely used for geospatial research and development.
- **TerrSet:** An integrated geospatial software system designed for earth system monitoring and modeling, contributing to sustainable development initiatives.
- **ILWIS:** The Integrated Land and Water Information System supports both vector and raster processing, offering functionalities for digitizing, editing, data analysis, and high-quality map production.

This lab is a cornerstone of the department's commitment to fostering innovative learning and research. By blending theoretical concepts with practical application, it prepares students to address real-world challenges in civil engineering and geospatial sciences with confidence and precision.


# Beyond Classrooms

## Where Every Event Tells a Story





# Career Counselling Services

The Department of Civil Engineering equips students with the guidance, skills, and opportunities needed for career success. Our Career Counseling and Professional Development Services prepare them for every stage of their professional journey.

- **Domain-Specific Mentorship**
  We have dedicated Chair Heads for Marketing, Finance, and Human Resources, providing students with:
  - **Expert Mentorship**
  - **Counseling Support**
- **Professional Development Program (PDP)**
- **Placement Support**
  Our Placement Department plays a vital role in shaping students' careers by providing:
  - **Support for Summer Internships (SIP) and Final Placements**
  - **Internship Guidance**
- **Alumni Mentorship**

# Graphic Era Common Entrance Test (GECET)

Scholarship upto
**₹100 Cr**

**Unlock up to 100% scholarships with GECET – Graphic Era Common Entrance Test.**

Secure your admission & financial support for a brighter future!

Apply Now – **gecet.geu.ac.in**

# Scholarships & Support Benefits

- Upto **100%** Scholarship based on 12th or UG marks
- Upto **100%** Merit-based Sports Scholarship
- **10%** Scholarship to the Girl Candidates
- **10%** Alumni Loyalty Scholarship
- **10%** Scholarship for Parentless Child
- **7.5%** Current Sibling Student Scholarship
- **05%** Passed out Sibling Student Scholarship
- **05%** Scholarship to the children of Defense Personnel
- **05%** Single Parent Scholarship
- **05%** Yearly Payment of Fees
- All students are covered under a comprehensive health insurance plan.
- Medical services are provided through the state-of-the-art Graphic Era Hospital.
- Student loan facilities are available to support financial needs.

## Student Facilities & Engagement

- Well-equipped and comfortable hostel facilities
- Efficient transportation services
- Extensive sports facilities
- Free student uniform
- Vibrant student clubs and extracurricular activities
- Multiple hygienic and student-friendly cafeterias
- Green, eco-friendly campus environment
- ICT-enabled smart classrooms

# Graphic Era
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## GET IN TOUCH


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