



**Graphic Era**  
Deemed to be University  
DEHRADUN

APPLY NOW



# DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Programs Offered —

- \* **B.Tech** in Electronics & Communication Engineering (ECE)
- \* **B.Tech** in Electronics Engineering (VLSI Design & Technology)
- \* **B.Tech** in ECE for Working Professionals
- \* **M.Tech** in VLSI System Design

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!**



# About the Department

Welcome to the Department of Electronics & Communication Engineering at Graphic Era (Deemed to be University), Dehradun. The Department was established in the year 2001 with the aims of providing leadership in the field of Electronics & Communication Engineering and pioneering interdisciplinary research. Over all these years, we have made progress in leaps and bounds in educating students and bring them at par with the ever-expanding horizons of Electronics and Communication Engineering.

Strengthened with highly qualified faculty experts and in-housed with state-of-the-art laboratories, industry-aligned curriculum supported by MATLAB (campus-wide License), Cadence, CST, ADS, OrCAD and Xilinx, ample computing resources and active research projects, the Department significantly contributes to academics, research and building brilliant careers for students.

## Vision

The Department visualizes itself to become leading centre of learning in the field of Electronics & Communication Engineering with academic excellence in research to produce self motivated, creative and socially responsible engineers and specialists, ready to take up challenges of industrial development with ethics and societal commitment.

## Mission

**M1:** To provide high quality contemporary education in the field of Electronics & Communication Engineering and professional ethics to its learners.

**M2:** To provide creative learning environment for the students to equip them with strong foundation for continuing higher education.

**M3:** To pursue research and develop insight knowledge of current and emerging technologies in Electronics & Communication Engineering to serve the needs of the society, industry and scientific community.

**M4:** To prepare students to have creative and innovative thinking to develop them into socially responsible professionals.

# Key Facts & Achievements

## Rankings

**#48** University Category

**#52** Engineering Category

**#52** Management Category



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

**#41** Sustainability Rank in India

**#138** Southern Asia 2026

**Diamond**

I-Gauge Rating



**#02** in India for Research Quality

**#601-800**

World University Ranking



World University Rankings 2026

## Startups

**₹500+ Cr**

Valuation of Startup's

**100+**

Incubated Startups

**90+**

Startups Recognised

**1000+**

Interns Enrolled

**8000+**

Beneficiaries in 2025

## 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**)

## Academic Snapshot

**900+** Distinguished 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

## B.Tech in Electronics and Communication Engineering (ECE)

### Optional Specializations —

- Embedded Systems & Robotics (ESR)
- Internet of Things (IoT)

### Duration —

4 Years/ 8 Semesters

### Eligibility —

Passed 10+2 examination with Physics/ Mathematics/ Chemistry/ Computer Science/ Electronics/ Information Technology/ Biology/ Informatics Practices/ Biotechnology/ Technical Vocational subject / Agriculture/ Engineering Graphics / Business Studies / Entrepreneurship.

## B.Tech in Electronics Engineering (VLSI Design & Technology)

### Duration —

4 Years/ 8 Semesters

### Eligibility —

Passed 10+2 examination with Physics/ Mathematics/ Chemistry/ Computer Science/ Electronics/ Information Technology/ Biology/ Informatics Practices/ Biotechnology/ Technical Vocational subject/ Agriculture/ Engineering Graphics/ Business Studies/ Entrepreneurship.

## Career Prospects

Graduates of ECE have a wide range of career opportunities in various industries, such as telecommunications, aerospace, defense, robotics, and IT. Some common career roles include:

- 🔧 System Engineer
- 🔧 Embedded Systems Developer
- 🔧 Telecommunications Engineer
- 🔧 Research Analyst
- 🔧 Software Engineer
- 🔧 Field Engineer

Additionally, sectors like **5G, IoT, AI, Machine Learning, and Quantum Computing** offer new career avenues.

## Career Prospects

The VLSI (Very-Large-Scale Integration) sector is essential for semiconductor and chip design. Graduates can work in leading tech companies and industries. Some common career roles include:

- 🔧 VLSI Design Engineer
- 🔧 ASIC Developer
- 🔧 FPGA Programmer
- 🔧 Chip Design Engineer
- 🔧 Test Engineer

Top employers include **Intel, Qualcomm, AMD, NVIDIA, and Texas Instruments**. This field also offers opportunities in **semiconductor manufacturing** and **nanotechnology**.

## B.Tech in ECE for Working Professionals

### Duration —

3 Years/ 6 Semesters

### Eligibility —

- Professionals working in Registered Industry / Organization (Central / State) / Private/ Public Limited Company/ MSMEs located within 75 KM radial distance from the Institute.
- Minimum of ONE Year Full time / Regular working Experience.
- Passed Minimum THREE years / TWO years (Lateral Entry) Diploma examination in ANY branch of Engineering and Technology. OR Passed B.Sc. Degree from a recognized University as defined by UGC and passed 10+2 examination with Mathematics as a subject.

## M.Tech in VLSI System Design\*

### Duration —

2 Years/ 4 Semesters

### Eligibility —

- Fulfilling the minimum eligibility criteria as per Institute norms.
- They must have passed a Bachelor's Degree in the relevant field of Engineering and Technology from institutions approved by the All India Council for Technical Education, Central or State Governments, or their equivalents.

## Career Prospects

This course is ideal for professionals looking to enhance their technical knowledge and advance in their careers. Graduates can move into senior or management roles such as:

- 🔧 Senior System Engineer
- 🔧 Telecommunications Project Manager
- 🔧 Embedded Systems Architect
- 🔧 R&D Specialist
- 🔧 Technology Consultant

Graduates can work in sectors like **telecom, IT, defense, semiconductors**, and more.

## Career Prospects

VLSI System Design graduates play a critical role in the semiconductor and integrated circuit industry, enabling advancements in electronics, communication systems, and embedded technologies. Career opportunities include:

- 🔧 VLSI Design Engineer
- 🔧 ASIC / FPGA Design Engineer
- 🔧 Physical Design Engineer
- 🔧 SoC Verification Engineer
- 🔧 Semiconductor Research Engineer

Graduates may pursue doctoral research, work in fabless semiconductor firms, EDA industries, or contribute to chip design startups and R&D labs.

# Meet Our Experts

Name	Designation	Qualification	Area of Expertise
<b>Dr. Santosh S Saraf</b>	Professor & Pro-VC	B.E., M.S., Ph.D (VTU Karnataka)	Applications of Deep Learning in Multimedia Processing
<b>Dr. Md. Irfanul Hasan</b>	Professor & HOD	B.Tech, M.Tech, Ph.D (BIT Mesra)	Wireless Signal Propagation Over Fading channels, MIMO Systems
<b>Dr. Pradeep Kumar Juneja</b>	Professor	B.Tech, M.Tech, Ph.D (IIT Roorkee)	Process control, Instrumentation
<b>Dr. Shalini Singh</b>	Professor	B.Tech, M.Tech, Ph.D (MNIT Allahabad)	Mobile Ad hoc networks, Hybrid networks, Signal Processing and Fading channels
<b>Dr. Varij Panwar</b>	Professor	Ph.D (DU Delhi)	Ionic polymer transducer, nanocomposites, wearable sensors, biodegradable materials
<b>Dr. Rishi Prakash</b>	Professor	B.Sc, M.Sc, Ph.D (IIT Roorkee)	Radar remote sensing, GNSS, Optical remote sensing
<b>Dr. Malathi S</b>	Professor	B.E., M.E., Ph.D (IISc Bangalore)	Optical MEMS, Biophotonics, Fiber Optic Sensors, ML for Photonics
<b>Dr. Peyush Pande</b>	Professor	B.E., M.E., Ph.D (Griffith University, Australia)	Wide bandgap semiconductor devices, Digital/analogue circuit design
<b>Dr. Gourav Verma</b>	Professor	B.Tech, M.Tech, Ph.D (Gautam Buddha University)	Advanced IoT Systems, Energy Harvesting
<b>Dr. Anurag Vidyarthi</b>	Professor	B.Sc, M.Sc, M.Tech, Ph.D (GEU)	Ionospheric Study & Navigation
<b>Dr. Vikas Rathi</b>	Professor	B.Tech, M.Tech, Ph.D (GEU)	Nano composite materials, EMI shielding, sensors, actuators
<b>Dr. Bajarang Prasad Mishra</b>	Professor	B.E., M.Tech, MBA, Ph.D (Jamia Millia Islamia)	Artificial Intelligence, Signal Processing, Communication, Navigation & Control
<b>Dr. Gunjan Srivastava</b>	Associate Professor	B.Tech, M.Tech, Ph.D (IIT ISM Dhanbad)	Metamaterials, Antennas, MIMO, Filters
<b>Dr. Niraj Kumar</b>	Associate Professor	B.Tech, M.Tech, Ph.D (SRM IST)	Nanomaterials, Nano-electronic devices
<b>Mr. Bhaskar Nautiyal</b>	Associate Professor	B.Tech, M.Tech, Ph.D (Pursuing GEU)	Remote sensing & wireless sensor networks
<b>Dr. Vinay Kumar</b>	Associate Professor	B.E., M.Tech, Ph.D (DTU Delhi)	VLSI, MOSFET, Carbon nanostructures, 2D structures

Name	Designation	Qualification	Area of Expertise
<b>Dr. Anzar Ahmad</b>	Associate Professor	B.Tech, M.Tech, Ph.D (GEU)	IoT, Wireless Communication
<b>Dr. Mridul Gupta</b>	Associate Professor	B.Tech, M.Tech, Ph.D (NSIT Delhi)	Microwave Engineering, DSP
<b>Dr. Abhay Sharma</b>	Associate Professor	B.E., M.Tech, Ph.D (NSIT Delhi)	Digital Design, FPGA, Signal Processing, Quantum Computing
<b>Dr. Kaushal Kumar</b>	Associate Professor	B.Tech, M.Tech, Ph.D (IIT Roorkee)	Semiconductor Devices, MOSFET, TFET
<b>Dr. Akash Kumar Bhoi</b>	Associate Professor	B.Tech, M.Tech, Ph.D (SMU)	Biomedical Computing, Biomedical Technologies, IoMT, ML Applications
<b>Dr. Sribidhya Mohanty</b>	Assistant Professor	B.Tech, M.Tech, Ph.D (GEU)	Electronic-ionic sensors, Wearable sensors, Biodegradable materials, Embedded Systems
<b>Dr. Chandni Tiwari</b>	Assistant Professor	B.Tech, M.Tech, Ph.D (IIT Jodhpur)	Semiconductor Devices, Material Synthesis
<b>Dr. Rajeev Kumar</b>	Assistant Professor	B.Tech, M.Tech, Ph.D (NIT Uttarakhand)	Photonic Devices, Fiber Optic Sensors, Metamaterials, VLSI
<b>Dr. Lokendra Singh</b>	Assistant Professor	B.Tech, M.Tech, Ph.D	Biosensors, Optical Devices, Nanotechnology, Microwave Devices
<b>Dr. Ashish Kumar Singh</b>	Assistant Professor	B.Tech, M.Tech, Ph.D (IIT BHU)	Semiconductor Physics, 2D materials, VLSI, Sensors
<b>Dr. Kamlesh Kukreti</b>	Assistant Professor	B.Tech, M.Tech, Ph.D (GEU)	VLSI, Organic Electronics, Embedded Systems
<b>Ms. Neha Belwal</b>	Assistant Professor	B.Tech, M.Tech, Ph.D (Pursuing GEU)	Process Control
<b>Ms. Alankrita Joshi</b>	Assistant Professor	B.Tech, M.Tech, Ph.D (Pursuing GEU)	VLSI & Polymer Nano-composites
<b>Ms. Priya Sharma</b>	Assistant Professor	B.Tech, M.Tech, Ph.D (Pursuing GEU)	Wearable Sensor, Energy Harvesting, Water Purification
<b>Ms. Poonam Raturi</b>	Assistant Professor	B.Tech, M.Tech, Ph.D (Pursuing GEU)	Wearable Sensors, Piezo-resistive Material, Ionic membrane
<b>Ms. Raj Gusain</b>	Assistant Professor	B.Tech, M.Tech, Ph.D (Pursuing GEU)	Ionospheric Studies, Satellite Navigation, Microstrip Patch Antenna

## Department Faculty among the World's Top 2% Scientists



**Dr. Niraj  
Kumar**  
Associate Professor



**Dr. Akash Kumar  
Bhoi**  
Associate Professor



**Dr. Rajeev  
Kumar**  
Assistant Professor



**Dr. Lokendra  
Singh**  
Assistant Professor

### The Faculty Edge: Excellence • Expertise • Experience



#### **Academic Excellence**

81.25% of  
faculty hold  
PhDs from top  
institutions



#### **Student Support**

17:1  
student-faculty  
ratio ensures  
personalized  
attention



#### **Faculty Loyalty**

91% faculty  
retention rate  
fosters  
stability and  
experience



#### **Research Publication**

505  
Scopus-indexed  
Research  
Publication  
(3 Years)



#### **Patents**

141 Patents  
Published and  
33 Patents  
Granted  
(3 Years)

# MoUs and Conferences

## MoUs

- Defence Electronics Application Laboratory (DEAL), DRDO
- Altium Education
- Samsung Prism
- IIT Roorkee
- Bureau of Indian Standards (BIS)
- National Institute of Electronics and Information Technology (NIELIT), GoI, Haridwar
- DesignTech Systems Pvt. Ltd. in association with MathWorks, India
- Entuple Technologies Pvt. Ltd. – Authorized Industry Partner for Cadence, OrCAD, and Ansys Solutions

## National & International Conferences

- National Conference in “Microwave & Millimeter Wave Technologies” (RCMMWT-2010) Dehradun, India October 4-5, 2010
- IEEE International Conference on “Emerging Trends in Communication Technologies” (ICETCT-2016) Dehradun, India November 18-19, 2016
- IEEE International Conference on “Recent Innovations in Electrical, Electronics and Communication Systems” (RIECS 2017), Dehradun, India October 27-28, 2017
- 1st IEEE International Conference on “Device Intelligence, Computing and Communication Technologies” (DICCT-2023) Dehradun, India March 17-18, 2023
- 2nd IEEE International Conference on “Device Intelligence, Computing, and Communication Technologies” (DICCT-2024) Dehradun, India March 15-16, 2024
- 3rd IEEE International Conference on “Device Intelligence, Computing, and Communication Technologies” (DICCT-2025) Dehradun, India March 21-22, 2025

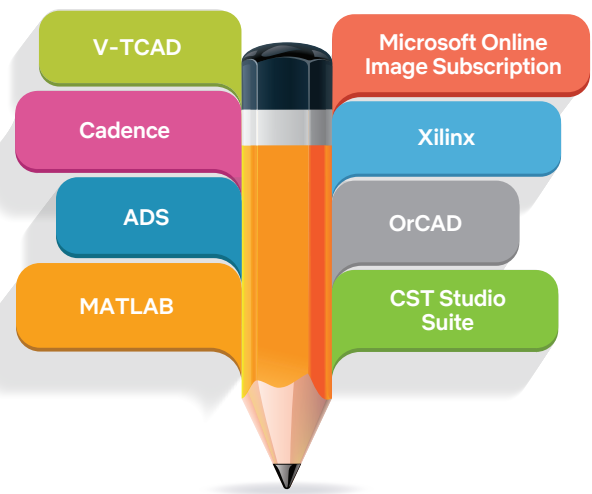




# Research & Achievements

Research labs and innovations in electronics engineering are key to advancing technology and shaping the industry's future. These labs are where breakthroughs happen, tackling complex challenges and creating new solutions. They foster collaboration and use cutting-edge tools to drive progress in areas like VLSI, wireless communication, microwave engineering, IoT, and electronic materials. Innovations from these labs often lead to economic growth, helping industries evolve to meet global demands. Investing in research and nurturing innovation is crucial for building a knowledge-driven society and a sustainable future.

## Softwares taught in LABs

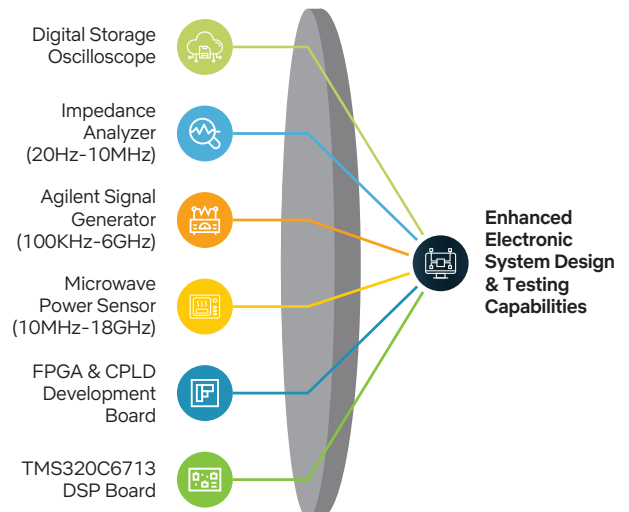


Produce Students Ready for Semiconductor Industry

# Facilities & Infrastructure

The electronics engineering program features specialized labs for hands-on learning. The Basic Electronics Lab introduces core components, while the Electronic Devices and Circuit Lab covers semiconductor applications. The Digital Electronics Lab focuses on logic circuits and programmable systems. The Communication System Lab teaches analog and digital modulation and transmission. The Digital Signal Processing Lab offers real-time analysis using MATLAB. The VLSI Design Lab enables integrated circuit design with Verilog or VHDL. A departmental library further supports students with essential books and research materials.

## Advanced Hardware Integration






**Clock-wise from top left:** Cadence Lab; Microwave Antenna Lab; Propagation Research Lab; Polymer Sensor and Actuator Lab; Project Lab; CST Software and MATLAB Campus Wide Suit



# Student Opportunities & Placements




Rohit Rawat  
  
 ₹20.00L



Mohd. Mujeeb  
**AIRBUS**  
 ₹12.00L



Preeti Singh  
 HSBC  
 ₹9.00L



Harshit Singh  
 ASHOK LEYLAND  
 ₹7.00L



Abhishek Kumar  
  
 ₹5.50L




Avanee Nagendra Dhaila  
**AVL**   
 ₹5.50L



Kirandeep Kaur  
  
 ₹5.50L




Kamini Kumari  
  
 ₹5.50L




Rishabh Sinha  
  
 ₹5.50L



Anurag Anand  
**orange™**  
 ₹5.00L



Anshuman Bisht  
  
 ₹4.81L



Meghna Pandey  
**accenture**  
 ₹4.50L

Academic Performance	2021-25	2020-24	2019-23	2018-22
Percentage of Students Placed and Admitted to Higher Studies	75%	72%	72%	98.44%

# Our Esteemed Alumni

## Success Stories and Contributions



**Atul Joshi**  
Director at National  
Communications Academy (NCA)  
Ministry of Communications, GOI

The B.Tech ECE program gave me a strong foundation in both theory and practical skills. The engaging curriculum and supportive faculty enhanced my learning, while hands-on lab work and projects helped me transition smoothly into my current role. It shaped me into a problem solver, prepared for the evolving tech landscape.



**Rohit Kapil**  
Director, Technology &  
Operations at Superdrive,  
Tokyo, Japan

My four years at Graphic Era were more than academic — they challenged me to build resilience and communication skills, which have been key to my professional success in connecting with colleagues and clients while navigating industry complexities.



**Stuti Pandey**  
Digital Marketing  
Strategist at Google,  
Delhi

I'm grateful for my B.Tech ECE experience at Graphic Era University (2009-2013). The comprehensive curriculum and focus on extracurriculars boosted my technical skills, creativity, and confidence, shaping my growth and success through the university's holistic approach and vibrant campus life.



**Prabhat Kumar**  
Senior Lead Engineer  
Qualcomm India Pvt. Ltd.

My B.Tech ECE experience at Graphic Era was enriching. Supportive faculty, an industry-focused curriculum, and hands-on labs strengthened my technical and problem-solving skills. The department's emphasis on practical learning and innovation built my confidence and adaptability. I'm grateful for the guidance and opportunities that shaped my career.



**Vinod Dani**  
Principal Engineer II, CPE Engg.,  
Charter Communications, USA

My Bachelor of Technology in Electronics and Communications played a key role in my professional growth by building a strong technical foundation. It deepened my understanding of complex systems and taught me to approach problems with clarity and confidence. I'm grateful for how it shaped my abilities, broadened my perspective, and prepared me for a constantly evolving industry.



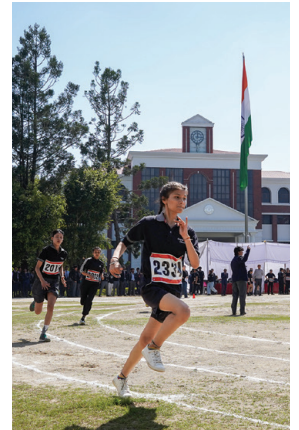
**Rohit Joshi**  
Director-Corporate IT  
BDO India Service Private Ltd

My studies in Electronics and Communications, guided by visionary faculty, provided a strong conceptual and practical foundation. This education was instrumental in enabling the application of my technical knowledge in the professional sphere. I am thankful for this guidance.



# Beyond Classrooms

Where Every Event Tells a Story



Join us in 2026!



# Career Counselling Services

The Department of Electronics & Communication 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](http://gecet.geu.ac.in)



# Scholarships & Support Benefits

Upto

 **100%** Scholarship based on 12th or UG marks

 **10%** Scholarship to the Girl Candidates

 **05%** Scholarship to the children of Defense Personnel


 **05%** Scholarship to the Sport Person (National Level)

 **7.5%** Current Sibling Student Scholarship

 **05%** Passed out Sibling Student Scholarship


 **10%** Alumni Loyalty Scholarship


 **10%** Single Parent Scholarship (COVID Case)

 **05%** Single Parent Scholarship (Normal Case)

 **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**  
Deemed to be University  
DEHRADUN

## GET IN TOUCH

Tollfree —  
1800 270 1280, 1800 890 6027

WhatsApp —  
(+91) 70881 19995

Website —  
[www.geu.ac.in](http://www.geu.ac.in)

E-mail —  
[admissions@geu.ac.in](mailto:admissions@geu.ac.in)

Campus —  
Bell Road, Clement Town, Dehradun, Uttarakhand, India 248002

