



Graphic Era
Deemed to be University
DEHRADUN

APPLY NOW



DEPARTMENT OF BIOTECHNOLOGY

Programs Offered —

* B.Tech Biotechnology

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 Biotechnology

The B.Tech. Biotechnology program at Graphic Era University is a four-year engineering course that integrates biology, chemistry, and engineering to address global challenges in healthcare, agriculture, the environment, and industry. The curriculum spans molecular biology, genetics, microbiology, bioprocess engineering, and more, with a balance of theory and practical learning through advanced labs, industry training, and soft skills development.

Guided by experienced faculty and supported by international collaborations, students are prepared for careers in research, clinical studies, policymaking, quality assurance, and biotech management.

The Department of Biotechnology has received ₹4.31 crore in research funding for 24 projects (11 completed, 13 ongoing) from major agencies such as NMHS (MoEF&CC), GB Pant NIHE, SERB-TARE, CSIR-ASPIRE, UCOST, USERC, and UCB—reflecting strong capabilities in biotechnology innovation, Himalayan ecology, and sustainable development.

The department's research output includes 400+ papers, around 100 book chapters, 5 edited books, 15 granted patents, and 50 published patents, showcasing its academic excellence and growing impact in the biotechnology field.

Vision

The Department of Biotechnology's vision is to produce capable, ethically driven professionals who are prepared for job opportunities and who have the ability to change the world by inventing, innovating, and sharing knowledge in response to issues and needs in society and the environment.

Mission

M1: Regular updating of course curriculum as per the demand of Biotechnology industry and academia.

M2: Be recognized as centre of excellence in teaching, learning and research.

M3: Entrepreneurship skill development.

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

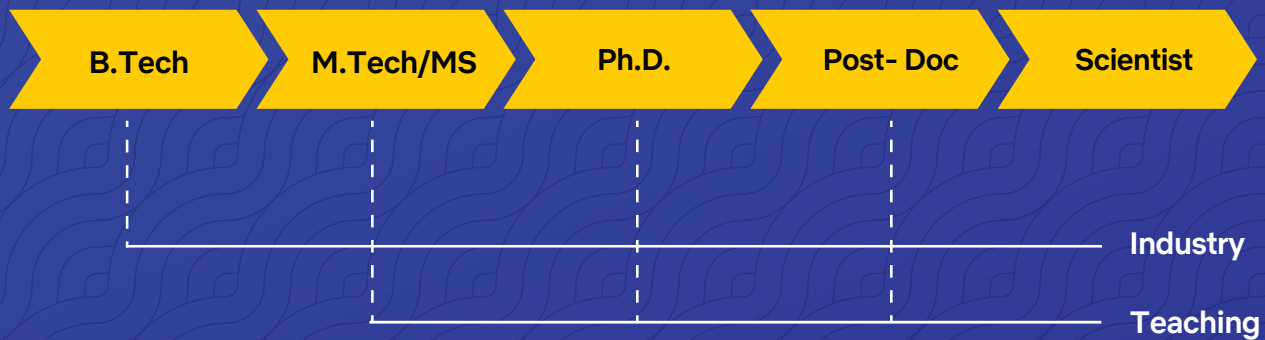
Under Graduate Courses

B.Tech in Biotechnology

B.Tech (Hons.) in Biotechnology with specialization in Synthetic Biology/ Computational Biology/ Sustainable Sciences

B.Tech (Hons.) in Biotechnology with minor in Artificial Intelligence/ Internet Of Things/ Sustainable Energy Engineering/ Remote Sensing & GIS/ Manufacturing & Operations/ Production Operations/ Biotechnology In Sustainability/ Aerospace Engineering

Career Paths



Alternative Career Paths

- Science and Journalism
- Science Communication
- Science Administration
- Startups
- Patenting and Licensing
- Sales and Marketing
- R&D Positioning in Industries



Research & Achievements



1. Dr. Payal Gupta delivered an invited talk on 'Microbial Biofilms: Drivers of Antimicrobial Toxicity and Evolution of Clinical Resistance' at the International Toxicology Convention EARTH 2025, held from 12–15 November 2025 at CSIR-IITR, Lucknow
2. Prof. Nishant Rai received a Certificate of Appreciation for his valuable contribution, insightful perspectives, and meaningful participation in shaping visionary discussions on the future of universities and advancing academic excellence.
3. Dr. Jigisha Anand was awarded the Women Scientist Award – First Position by the Society of Chemical and Synthetic Biology (SCSB), India, at the National Conference on Microbial Innovations and Challenges: Opportunities for Sustainability, in recognition of her outstanding scientific contributions.

Department Faculty among the World's Top 2% Scientists



Dr. Anita Pandey
Professor



Dr. Divakar Sharma
Associate Professor



Dr. Prabhakar Semwal
Associate Professor

Meet Our Experts

Name	Designation	Area of Expertise
Dr. Rupak Nagraik	Associate Professor & HOD	Electro-Chemical Sensors
Prof. (Dr.) Anita Pandey	Professor	Microbial Biotechnology
Prof. (Dr.) Nishant Rai	Professor	Microbial Pathogenesis & Molecular Diagnostics
Prof. (Dr.) Navin Kumar	Professor	Microbial Pathogenesis & Molecular Diagnostics
Prof. (Dr.) Pallavi Singh	Professor	Computational Biology & Bioprocess Engineering
Prof. (Dr.) Janhvi Mishra Rawat	Professor	Plant Biotechnology & Biodiversity Conservation
Dr. Divakar Sharma	Associate Professor	Infectious Diseases & Antimicrobial Resistance (AMR)
Dr. Mayank Bhushan	Associate Professor	Nanobiotechnology
Dr. Jigisha Anand	Associate Professor	Herbal Drug Development & Nanomedicines
Dr. Prabhakar Semwal	Associate Professor	Plant Biology & Himalayan Biodiversity
Dr. Payal Gupta	Associate Professor	Fungal Omics & Nanotherapeutics
Dr. Pramod Rawat	Assistant Professor	Microbial Pathogenesis & Stem Cell
Dr. Yashaswi Singh	Assistant Professor	Plant Biotechnology
Dr. Devvret Verma	Assistant Professor	Bioinformatics
Dr. Avinash	Assistant Professor	Nano Biotechnology
Dr. Jyotsna Misra	Assistant Professor	Microbial Enzymology
Dr. Yograj Bist	Assistant Professor	Interdisciplinary Research in Food Technology & Biotechnology
Dr. Abhishek Kumar	Assistant Professor	Environmental Biotechnology
Dr. Megha	Assistant Professor	Environmental Biotechnology
Er. Somya Sinha	Assistant Professor	Bioinformatics & Nanotechnology
Er. Prateek Gururani	Assistant Professor	Food and Bioprocess Engineering
Er. Ragini Khera	Assistant Professor	Biochemistry & Nanobiotechnology

Events and Activities



1. Students presented a vibrant cultural performance during the National Conference MAPBio, showcasing the rich heritage and diversity of our traditions.
2. Biocon Academy's industry – academia interaction offered students practical biotech exposure through expert sessions, providing insights on emerging technologies, industry expectations, and key skills that strengthen learning and enhance career readiness.
3. Students visited the Forest Research Institute (FRI), Dehradun, gaining valuable exposure to advanced research facilities and conservation practices. The visit enhanced their understanding of forestry, biodiversity, and environmental sciences through interactive sessions with experts.
4. Engineer's Day was celebrated through activities that highlighted innovation and problem-solving, inspiring students to value engineering's impact on society.
5. Sneha Anand achieved a remarkable triumph on Mt. DKD 2.
6. The session with Mr. Ajay Khanna offered B.Tech Biotechnology students key industry insights, linking classroom learning with real-world applications and boosting their career readiness.

Student Opportunities and Placement



Sukant



Suhalia



Rajnish



Vatshal Aggarwal



Uday Chaudhary



Maitri Gupta



Aditi Joshi



Priyanshi Pandey



Yogyata Joshi



Harjeet Tomar



Astha Rawat



Saumya Srivastava



Facilities and Infrastructure



Clockwise from top

Plant Tissue Culture

Photoperiodic racks, Laminar air flow, BOD incubator, Polyhouse facility, Ice flaking machine, Cooling centrifuge

Central Instrumentation Facility1

Microscopes, Centrifuge, Gel Documentation system, spectrophotometer, Millipore water purification, HPLC, FT-IR, ELISA Plate Reader

Microbiology Laboratory

BOD incubator, Laminar, Rotatory evaporator

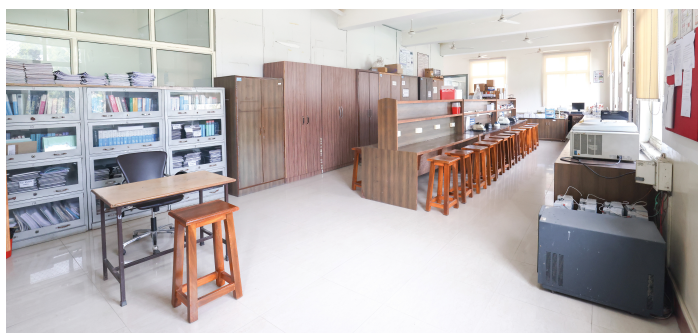
Central Instrumentation Facility2

GC-MS, HPLC, AAS, Plate reader, Probe Sonicator, Texture Profile Analyzer, 3D printer, Cell lyophilizer, spectrophotometer

Cell Biology & Recombinant DNA Technology
Thermocycler, Electrophoresis unit, Gel-Doc system

Biosafety and Molecular Diagnostic Laboratory

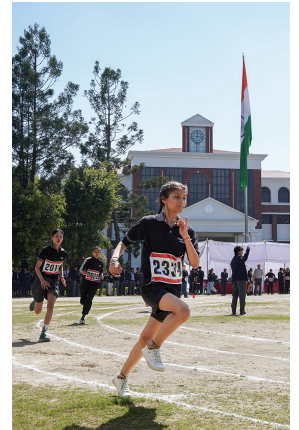
Biosafety Cabin –A2, RT-PCR (Real-Time Polymerase Chain Reaction) System (IVD-CFX-96, USFDA approved), Refrigerated Incubator Shaker, Tabletop Centrifuge, Laminar (Horizontal)





Beyond Classrooms

Where Every Event Tells a Story



Join us in 2026!



Career Counselling Services

The Department of Biotechnology 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

 **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

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GET IN TOUCH

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