



DEV BHOOMI
—UTTARAKHAND—
UNIVERSITY

21 years
of Academic
Excellence



AEROSPACE ENGINEERING

**ADMISSIONS
OPEN 2026-27**

Apply Now !
www.dbuu.ac.in | 1800 103 4049



about the University

Dev Bhoomi Uttarakhand University is the best university in Dehradun, Awarded as the Best Emerging University by the Asian Education Conclave and for Best Placement & Excellence in Academics in North India by the Ministry of Human Resources Development.

Spread over a 42-acre green campus, the University offers 120+ programs across 12 schools. With modern classrooms, advanced labs, industry collaborations, and research facilities, DBUU provides a holistic and experiential learning environment, preparing students to become skilled, responsible, and globally competent professionals.

RANKED

1ST

In Uttarakhand
Professional Education by Education
World Rankings 2025-26

Awarded as

**THE BEST
EMERGING UNIVERSITY**
by Asian Education Conclave

7TH
RANKED

In North India by THE
WEEK

8TH
RANKED

Outstanding Achievement in
Professional Education by
Education World Rankings
2025-26

25TH
RANKED

Top Universities in North India
by Times Rankings 2025

31ST
RANKED

Placement Category (All-India)
by Times Rankings 2005

66TH
RANKED

Top Engineering Institutions in
India by 2025 Times Rankings



about the Department

Aerospace Engineering is the branch of engineering concerned with the design, development, testing, manufacturing, and maintenance of aircraft, spacecraft, satellites, missiles, and unmanned aerial systems. The discipline integrates aerodynamics, propulsion, avionics, flight mechanics, structures, materials engineering, and control systems to develop advanced air and space technologies.

The field is broadly divided into:

Aeronautical Engineering

focused on aircraft operating within
Earth's atmosphere

Astronautical Engineering

focused on spacecraft and space
exploration systems

University Placement Highlights

120+
Programmes

44 LPA
Highest CTC

850+
Recruiters'
Network

15.5K+
Placement
Offers

22K+
Alumni

80%
Average
Placement

B.Tech in Aerospace Engineering

The B.Tech. in Aerospace Engineering is a four-year undergraduate programme designed to provide strong theoretical foundations along with practical engineering exposure in the fields of aircraft and spacecraft systems.

The curriculum develops expertise in:

- Aerodynamics
- Propulsion Systems
- Flight Mechanics
- Aircraft Structures
- Avionics and Control Systems
- Spacecraft Technology
- Computational Methods
- CAD/CAM and Simulation
- Materials Engineering

The programme emphasizes laboratory training, industry-oriented learning, software exposure, and project-based education to prepare students for careers in aerospace, aviation, defense, manufacturing, and research sectors.

Students are trained to analyze, design, simulate, and develop aerospace systems using modern engineering tools and technologies.



Programmes Offered

The B.Tech. in Aerospace Engineering is a four-year undergraduate programme focused on aircraft and spacecraft development. It consists of two primary branches: Aeronautical Engineering, which deals with aircraft, and Astronautical Engineering, which deals with spacecraft.

Undergraduate Programmes

II B.Tech. in Aerospace Engineering - Duration : 4 Years

Eligibility — Candidate must have passed 10+2 examination with Physics, Chemistry and Mathematics as compulsory subjects and obtained at least 50% marks (45% in case of candidate belonging to reserved category) in the above subjects taken together from a recognized board/university.

For Lateral Entry - Candidate must have Passed Diploma examination with at least 45% marks in any branch of Engineering and Technology.

CORE SUBJECTS INCLUDE

- Aircraft Structures
- Aerodynamics
- Flight Mechanics
- Aircraft Propulsion
- Spacecraft Dynamics
- Orbital Mechanics
- Avionics Systems
- Computational Fluid Dynamics
- Aircraft Design

PROGRAMME FEATURES

- Industry-oriented curriculum aligned with modern aerospace technologies
- Well-equipped laboratories for aerodynamics, structures, propulsion and drone technology
- Training on industry-standard software and simulation tools
- Internship opportunities with aerospace, aviation, and manufacturing and repair organizations
- Project-based learning and research exposure
- Placement support for eligible students in core and allied sectors
- Experienced faculty with academic and industrial expertise



Career Opportunities

Graduates in Aerospace Engineering can pursue careers in aircraft design, manufacturing, maintenance, research, defense technologies, space systems, and emerging UAV industries.

- Aerospace Engineer
- Aeronautical Engineer
- Design Engineer
- Structural Engineer
- Propulsion Engineer
- Avionics Engineer
- Systems Integration Engineer
- Test Engineer
- Flight Operations Engineer
- Research Associate
- CAD/CAE Engineer

Employment Sectors

Aircraft Design & Manufacturing	- Aircraft Structural Design - Stress and Fatigue Analysis - Aerodynamic Simulation - Materials and Process Engineering - CAD/CAM Development	UAV & Drone Sector	- Drone Design and Development - Autonomous Systems - Aerial Mapping and Surveying - Defense & Surveillance Applications
Government & Research Organizations	- ISRO - DRDO - HAL - NAL - Indian Air Force	Manufacturing & Industrial Sector	- Quality Assurance - Production Engineering - Project Engineering - Procurement and Operations



Lab Facilities



Propulsion Lab



Aerodynamics Lab



Structures Lab



Maintenance Lab



Computer Lab



Training, Projects & Student Development

The Aerospace Engineering programme emphasizes experiential learning through technical training, industrial exposure, innovation activities, and multidisciplinary project development. Students are encouraged to develop practical engineering skills alongside strong theoretical knowledge.



Industrial Visits

Students gain practical exposure through visits to aerospace industries, airports, aircraft maintenance facilities, manufacturing units, and research laboratories



Internship Opportunities

The department encourages internships in aerospace, aviation, defense, manufacturing, and research organizations to provide real-world engineering experience and industry interaction.



Technical Workshops & Certification Programmes

Regular workshops and certification programmes are conducted on:

- CAD/CAM Software
- UAV & Drone Technologies
- CFD and Simulation Tools
- Aircraft Systems
- Additive Manufacturing
- Robotics and Automation



Project-Based Learning

Students work on innovative projects related to:

- Aircraft Design
- Drone Development
- Aerodynamic Analysis
- Rocket and Propulsion Systems
- Structural Analysis



Research & Innovation

The department promotes participation in:

- Technical Competitions
- Hackathons
- Model Aircraft Development
- Research Publications
- National and International Conferences



Software & Technical Exposure

Students receive training in modern engineering tools such as:

- ANSYS
- SolidWorks
- CATIA
- MATLAB

Bringing Corporate to the **Classroom@DBUU**



120+

Guest lectures by
Industry experts



110+

Hands on workshops



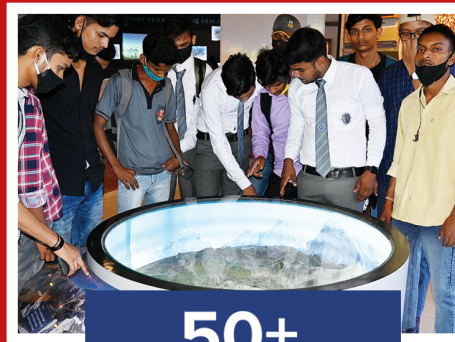
70+

Educational visits



55+

Technical workshops
on latest technologies



50+

Industry visits



45+

Social responsibility
programs



40+

Industry
collaborations



40+

Cultural events



20+

Start-up workshops



20+

Sports events



04+

Technical
events



04+

Annual events

Annual Engineering Meet

Precision-Passion-Progress



NAVADHARA@
NATIONAL TECHNO FEST

DBUU

“Navadhara is the annual technical fest of Dev Bhoomi Uttarakhand University, bringing together students to learn from experts, showcase skills, and collaborate through competitions, workshops, and innovation in emerging technologies.”



LAKSHAGRIHA 2026

Global Hackathon & Model Making

It brings together innovative minds from across the globe to compete, collaborate, and create cutting-edge solutions. The event fosters creativity, technical excellence, and hands-on learning through hackathons and model-building challenges.



**DEV BHOOMI**
—UTTARAKHAND—
UNIVERSITY

**SAMBHAV**
ESPORTS

Presents
CLUTCHFEST 1.0
E-SPORTS GAMING

on the occasion of
1st Anniversary of **SAMBHAV CLUB**

11th to 13th Sep 2025



WIN EXCITING CASH PRIZES

“E-Sports Gaming Challenges” is an annual event that brings together passionate gamers to compete in thrilling and competitive matches. It provides a dynamic platform to showcase gaming skills, strategy, and teamwork across popular titles.



Annual Cultural Fest
PINAK

DEV NEGI
PINAK 2025

SONU NIGAM
PINAK 2023

JAVED ALI
PINAK 2022

**PRIYANAKA
MEHAR**
PINAK 2022

**SHANKAR
MAHADEVAN**
PINAK 2025

STEBIN BEN **BISMIL**
PINAK 2026

**SHREYA
GHOSHAL**
PINAK 2024



Shaping Your Future with DBUU's 120+ PROGRAMMES

ENGINEERING

- **B. Tech**
 - Computer Science & Engg.
 - AI & Machine Learning
 - Cyber Security & Forensics
 - Data Science*
 - AI and Data Science*
 - Civil I Mechanical I Aerospace
 - Electronics & Communication
 - Electrical Engineering
 - Electric Vehicle Technology*
- **M. Tech**
 - Computer Science & Engg.
 - Structural I Geotechnical Engg.
 - Transportation Engg.
 - Digital Communication
 - Energy Tech. I Thermal I Production
 - Smart Grid

COMPUTER APPLICATION

- **BCA / BCA with research**
 - Core
 - Cyber Security
 - Data Science*
 - Full Stack Development*
 - AI & Data Science*
- **B.Sc IT (Information Technology)**
- **B.Sc CS (AI & Data Science)***
- **MCA**
 - Core
 - AI & Data Science*

AGRICULTURE

- **B.Sc (Hons)**
 - Agriculture
 - Forestry
 - Natural Farming
 - Community Science
- **M.Sc**
 - Agronomy I Plant Pathology
 - Genetics & Plant Breeding
 - Horticulture (Vegetable Science)

PHARMACY

- **D.Pharm**
- **B.Pharm**
- **Pharm.D**
- **M.Pharm**
 - Pharmaceutics
 - Pharmacology
- **M.Sc (Pharmaceutical Chemistry)**

AYURVEDA & HOSPITAL

- **BAMS**

ANIMATION, DESIGN & PLANNING

- **B. Design**
 - Graphic Design I Interior Design
 - Digital Product Design / UI & UX *
 - Game Design & Animation*
- **B.Sc Animation, VFX & Gaming**
- **M.Sc Animation & Multimedia**
- **M. Plan**
- **M. Design**
 - Interior Design
 - Digital Product Design / UI & UX *

DEV BHOO MI SCHOOL OF ARCHITECTURE

- **Diploma in Architecture**
- **B. Arch**

JOURNALISM & LIBERAL ARTS

- **BA (Hons) / with research**
 - Journalism & Mass Comm. I English I Psychology
- **Bachelor of Fine Arts (BFA) | MFA**
- **Fashion Design**
 - Diploma I B. Design I B.Sc
- **MA**
 - Journalism & Mass Com. I English I Fashion Design & Merchandising

HOTEL MANAGEMENT & TOURISM

- **Diploma**
 - Food Production
 - Bakery & Confectionery
 - Food & Beverage Service
- **BHM I MHM**
- **BBA**
 - Tourism & Event Management
- **B.Sc**
 - Hospitality & Hotel Management

NURSING

- **GNM**
- **B.Sc Nursing**

LAW

- **Three Years Degree Program**
 - LL.B
- **Five Years Integrated Degree Program**
 - B.A. LL.B (Hons.)
 - B.B.A. LL.B (Hons.)
 - B.Com. LL.B (Hons.)

POLYTECHNIC (UBTER)

- **Diploma**
 - CSE I EE I CE
 - ME (Automobile / Production)

MANAGEMENT & COMMERCE

- **BBA / BBA with research**
 - HR/IB/Marketing/Finance
 - Business Analytics*
 - Digital Marketing*
 - Fintech & Digital Banking*
 - Aviation & Airport Management
 - AI and Data Science*
- **B.Com / B.Com (Hons)**
- **MBA**
 - Core
 - HR / Marketing / Finance / International Business / Logistics & Supply Chain Management
 - Business Analytics*
 - Digital Marketing*
 - Agribusiness
 - AI and Data Science*

ALLIED SCIENCES

- **B.Sc (Hons) / with research**
 - Forensic Science
 - Food Technology
 - Biotechnology I Microbiology
 - Chemistry I Zoology
- **B. Tech - Biotechnology**
- **M.Sc**
 - Food Technology
 - Biotechnology
 - Microbiology
 - Forensic Science
 - Industrial Chemistry

PARAMEDICAL SCIENCE

- **B.PT**
- **B.MRIT**
- **B.MLS**
- **B.AOTT**
- **B.Optom**
- **B.Sc**
 - Medical Microbiology
- **BHA**
- **MHA**
- **Master of Public Health (MPH)**

* Industry Integrated



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Himachal Pradesh : +91-9368408965
South : +91-9010648377, +91-9390087742, +91-8465854944

 VIRTUAL TOUR



CONNECT WITH US!



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