



SCHOOL OF
ADVANCED ENGINEERING
ENGINEERING SOLUTIONS FOR TOMORROW

SCHOOL OF
COMPUTER SCIENCE
BUILDING A SMARTER WORLD

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FROM THE DEAN'S DESK



JAYASANKAR VARIYAR

*Officiating Dean,
School of Advanced Engineering*

“ Engineering today stands at the centre of unprecedented technological change. As Industry 4.0 reshapes industries through intelligent systems, advanced manufacturing, immersive technologies, and digital integration, engineers are expected to design solutions that are not only innovative but also sustainable and responsible.

At the School of Advanced Engineering at UPES, students are prepared to meet this challenge with confidence and purpose. Aligned with UPES' vision of the University of Tomorrow, the programs combine strong engineering fundamentals with real-world application, enabling students to engage meaningfully with emerging technologies and evolving industry needs.

Learning is shaped by flexible curricula, interdisciplinary exploration, and close collaboration with academic and industry partners. Students are

encouraged to think critically, adapt continuously, and apply engineering principles in ways that address societal and environmental priorities.

The focus extends beyond technical competence. The School aims to nurture engineers who value creativity, ethical responsibility, and lifelong learning. These are professionals equipped to lead innovation thoughtfully in a complex and interconnected world.

FROM THE DIRECTOR'S DESK



RAJIV NANDWANI

*Senior Director,
School of Computer Science*

“ Computing today sits at the heart of almost every transformation shaping modern society. From intelligent infrastructure and healthcare systems to mobility, communication, and consumer technologies, digital intelligence is redefining how we live, work, and interact with the world.

At the School of Computer Science at UPES, students are prepared to lead this transformation. The approach goes beyond technical proficiency and focuses on the ability to design, build, and apply intelligent systems that solve real-world problems. The curriculum is grounded in strong computing fundamentals and strengthened by emerging domains such as artificial intelligence, data science, cloud technologies, and distributed systems.

Learning is deeply industry connected and experiential. Through collaborative projects, interdisciplinary teamwork, and partnerships with

leading technology organisations, students gain practical exposure and a clear understanding of how innovation translates into impact. Entrepreneurial thinking, ethical awareness, and problem-solving form an integral part of their development.

The goal is to nurture professionals who are adaptable, future ready, and capable of shaping technology responsibly in an increasingly digital world.

THE UPES EDGE

23 YEAR

Legacy

42 ACRES

Campus

1.3 CR

Highest Package**



#1* IN ACADEMIC REPUTATION



#5 IN INDIA



#45^ IN INDIA
#43 IN ENGINEERING

UNIVERSITY OF TOMORROW

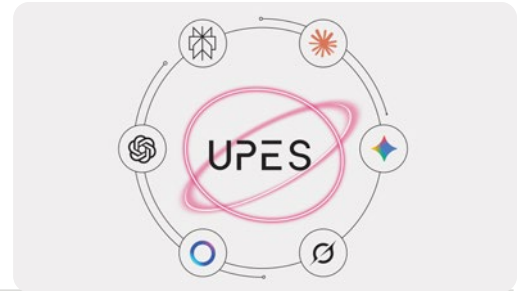


CLASSROOM IN THE HILLS

Experience a safe, green, student-friendly campus with a naturally lower AQI, designed to ignite creativity and innovation.

MASTER AI

Leverage real-world AI use cases designed to solve future challenges across disciplines.



DESIGN YOUR OWN DEGREE

Explore unique course combinations that open horizons beyond traditional academics.

SCHOOL FOR LIFE

Develop essential life skills through India's first dedicated life-skills training module.



LAUNCH YOUR VENTURE

Build your start-up with support from the Runway Incubator, home to 250+ breakthrough ideas.

NEST

Join a 60,000+ strong, vibrant community that offers lifetime placement support, upskilling opportunities, and mentorship.



DESIGNED FOR FUTURE-MAKERS



GLOBAL OPPORTUNITIES

UPES Global Pathway Program lets students study partly at UPES and complete the rest at partner universities abroad, offering global exposure upon meeting eligibility requirements.



SEMESTER ABROAD

The UPES Semester Abroad Program allows students to study for a semester at leading international partner universities, gaining global exposure and diverse learning experiences while continuing their UPES degree.



WORLD-CLASS FACULTY

Seasoned mentors and globally renowned academicians nurture exceptional talent, including distinguished faculty from IITs, IIMs, IISc, and Ivy League institutions.



CENTRES OF EXCELLENCE (COES)

UPES has built a strong culture of research and innovation through dedicated Centres of Excellence and prestigious projects supported by national and international funding bodies. With an ecosystem that promotes interdisciplinary collaboration and real-world impact, UPES enables cutting-edge, solution-driven research.



GLOBAL INDUSTRY PARTNERS

UPES partners with global industry leaders like IBM, AWS, and Bajaj to provide future-focused learning and real-world experience. Through centres like UPES BEST - Bajaj Engineering Skills Training Centre, students gain hands-on, industry-relevant skills, becoming future-ready professionals for India's evolving industrial landscape.



YOUR GATEWAY TO GLOBAL EXPOSURE

Semester Abroad

UC Berkeley Global

Student Exchange
and Research



Masters Progression



Accelerated
Masters
Progression



and more...

UNDERGRADUATE PROGRAM OFFERINGS

UNDERGRADUATE PROGRAM

SPECIALISATION

B.Tech Applied Petroleum Engineering	Gas Engineering Informatics Intelligent Petroleum Systems Renewable Energy Systems and Storage
B.Tech Aerospace Engineering	Avionics Engineering Defence Technology Flexible Interdisciplinary Research Track Space Technology
B.Tech Chemical Engineering	Digitalisation of Process Technology Renewable Energy Systems and Storage Refining and Petrochemicals
B.Tech Civil Engineering	Construction Management Environmental Engineering Transportation Engineering
B.Tech Electrical Engineering	AI and ML Applications E-Vehicle and Industrial Drives Smart Grid Technologies
B.Tech Electronics and Computer Engineering	AI and ML Applications Communication Technology Microelectronics
B.Tech Fire and Safety Engineering	-
B.Tech Mechanical Engineering	Advanced Manufacturing Automotive Engineering Flexible Interdisciplinary Research Track Mechatronics Engineering Renewable Energy Systems and Storage
B.Tech Sustainability Engineering	-
B.Tech VLSI Design and Technology	-
B.Tech Computer Science and Engineering	Artificial Intelligence and Machine Learning Big Data Core Computer Science Cloud Computing and Virtualisation Technology Cyber Security and Digital Forensics Data Science DevOps Full Stack Development Graphics and Gaming Internet of Things
B.Tech Computer Science and Economics	-
B.Tech Computer Science and Engineering - Immersive Technologies	-

UNDERGRADUATE PROGRAM

SPECIALISATION

B.Tech Mathematics and Computing	-
B.Tech Intelligent Robotics and Automation	-
B.Tech Smart Manufacturing & Industrial Intelligence	-
Bachelor of Computer Application	Artificial Intelligence and Machine Learning Cyber Security and Digital Forensics Data Science
B.Sc. (Hons.) Chemistry/ B.Sc. (Hons. with Research) Chemistry	Industrial Chemistry Polymer Chemistry
B.Sc. (Hons.) Geology	Geoinformatics
B.Sc. (Hons.) Physics/ B.Sc. (Hons. with Research) Physics	Astronomy and Astrophysics Computational Physics Material Science and Nanotechnology
B.Sc. (Hons.) Mathematics/ B.Sc. (Hons. with Research) Mathematics	Applied Mathematics Pure Mathematics
B.Sc. Computer Science	Artificial Intelligence and Machine Learning Cyber Security and Digital Forensics Data Science

GLOBAL PATHWAY PROGRAMS (2+2 YEARS)

PROGRAM

GLOBAL PARTNERS

B.Tech Applied Petroleum Engineering B.Tech Civil Engineering	University of Aberdeen
B.Tech Chemical Engineering B.Tech Electrical Engineering	University of Edinburgh University of Queensland
B.Tech Mechanical Engineering	University of Aberdeen University of Queensland
B.Tech Computer Science and Engineering	University of Queensland University of Auckland University of Glasgow

POSTGRADUATE PROGRAM OFFERINGS

POSTGRADUATE PROGRAM	SPECIALISATION
M.Tech Chemical Engineering	-
M.Tech Computational Fluid Dynamics	-
M.Tech Construction Technology and Management	-
M.Tech E-Mobility	-
M.Tech Health, Safety and Environment	-
M.Tech Petroleum Engineering	-
M.Tech Renewable Energy	-
M.Tech Robotics Engineering	-
M.Tech Sustainability Engineering	-
M.Sc. (Hons.) Applied Geology	-
M.Sc. Chemistry	Instrumental Chemical Analysis Organic Chemistry Polymer Science
M.Sc. Mathematics	Applied Mathematics Pure Mathematics
M.Sc. (Statistics and Data Science)	-
M.Sc. Physics	Astronomy and Astrophysics Material Science and Nano Technology
M.Tech Computer Science and Engineering	Artificial Intelligence and Machine Learning Cyber Security and Digital Forensics Data Science
Master of Computer Application	Artificial Intelligence and Machine Learning Cyber Security and Digital Forensics Data Science

ELIGIBILITY

For eligibility requirements and the selection process,
Click the button.

KNOW MORE



SCHOLARSHIPS*

MERIT SCHOLARSHIPS

Undergraduate and Integrated Programs
Up to 30% scholarship based on Class XII board performance.

NATIONAL LEVEL EXAMS

Undergraduate Programs
Up to 100% based on CUET and JEE performance.

VIJAY SCHOLARSHIP

Undergraduate and Postgraduate Programs
50 sports scholarships for outstanding performers.

DOMICILE SCHOLARSHIP

Undergraduate and Postgraduate Programs
25% fee concession for bonafide residents of Uttarakhand.

JYOTI SCHOLARSHIPS

Undergraduate and Postgraduate Programs
Freeships for underprivileged students.

TEACHER'S WARD CONCESSION

Undergraduate and Integrated Programs
Up to 35% concession on the first-year tuition fee for the wards of teachers from Government or Government-recognised schools, colleges or universities.

DEFENCE WARD CONCESSION

Undergraduate and Integrated Programs
Up to 35% concession on the first-year tuition fee for the wards of serving, retired, or personnel killed/disabled in action.

*T&C Apply

Only one category of scholarship can be availed by a student; multiple scholarships to one candidate will not be granted. Merit Scholarships are not applicable to students enrolled in the Global Pathway Program (GPP). For scholarship eligibility and conditions, please visit upes.ac.in/admissions/scholarships

ACADEMIC EXCELLENCE

50+ UPES FACULTY RANK AMONG
THE WORLD'S **TOP 2% RESEARCHERS**
BY STANFORD UNIVERSITY.



FACULTY FROM TOP GLOBAL UNIVERSITIES



and more...

FACULTY WITH IMPECCABLE CREDENTIALS



and more...

INDUSTRY IN THE CLASSROOM

At UPES, learning extends beyond theory through direct engagement with global industry leaders, award-winning practitioners, and subject-matter experts. Students gain first-hand exposure to real-world perspectives, contemporary leadership practices, and professional networks that prepare them to transition seamlessly into the workplace as confident, industry-ready professionals.

This immersive approach integrates hands-on learning with the latest technologies and real business contexts from day one. By embedding industry practices into the academic framework, UPES bridges the gap between classroom learning and real-world application, equipping students with relevant skills, practical insight, and a distinct employability advantage for their future careers.

INDUSTRY ALLIANCES



MORRIS GARAGES



and more...

KEY INDUSTRY MASTERCLASSES OF 2025

Industry-focused sessions with powerful insights delivered by

- Dr. Deepak Vohra – Ambassador, Made in India
- Anand Ramamoorthy – Managing Director, Micron India
- Dr. K Sivan, Chairman – Indian Space Research Organisation (ISRO), Government of India
- Anand Kumar – Mathematician and Academician, Super 30
- Mithun Kumar – Senior Software Engineer, Google
- Amit Mehta – Head Business Development, Education and Training, AWS
- Shikhar Goel – Chief Technology Officer, GeeksforGeeks
- Inspire and Innovate: AI Workshop – In collaboration with IIT Ropar
- Enhancing Diagnostic Accuracy in Medical Imaging Through AI-Powered Image Analysis- London South Bank University

and more...

OUR FACULTY

Seasoned mentors and globally renowned academicians committed to nurturing exceptional talent and shaping future-ready business leaders.



KARMESHU

Professor
PhD - Jawaharlal Nehru
University, New Delhi
35+ Years of Experience



VINOD PATIDAR

Professor
PhD - Mohanlal Sukhadia
University
25+ Years of Experience



NEELU JYOTI AHUJA

Professor
PhD - UPES
20+ Years of Experience



PANKAJ KUMAR

Professor
PhD - National University
of Singapore
25+ years of Experience



VIBHU GAUTAM

Professor
M.Sc. - University of
Southampton
10+ years of Experience



ADARSH KUMAR

Professor
PhD - Aligarh Muslim
University
15+ Years of Experience



VIJENDER SINGH

Professor
PhD - Birla Institute of
Technology, Mesra
25+ years of Experience



AKASHDEEP BHARDWAJ

Professor
PhD - UPES
25+ years of Experience



DEEPIKA KOUNDAL

Associate Professor
PhD - Panjab University
23+ Years of Experience



TANUPRIYA CHOUDHURY

Assistant Professor
PhD - Jagannath University,
Rajasthan
15+ Years of Experience

OUR FACULTY



SHALENDRA KUMAR

Professor
PhD - Aligarh Muslim University

19 Years of Experience



VIPIN GAUR

Senior Associate Professor
PhD - Tata Institute of Fundamental Research

15 Years of Experience



SIDDHARTH JAIN

Senior Associate Professor
PhD - IIT Roorkee

14 Years of Experience



RUPENDRA PACHAURI

Senior Associate Professor
Post Doctoral Fellowship - Asian Institute of Technology
PhD - Gautam Buddha University

9 Years of Experience



MUKESH KUMAR SHARMA

Associate Professor
PhD - IIT Delhi

13 Years of Experience



DURGA MADHAB MAHAPATRA

Associate Professor
PhD - Indian Institute of Science, Bangalore

19 Years of Experience



SUBHANKAR DAS

Assistant Professor
PhD - National Institute of Technology, Silchar

6 Years of Experience



SAMBIT PRASANAJIT NAIK

Assistant Professor
PhD - IIT Kanpur

16 Years of Experience



ANKIT KUMAR YADAV

Assistant Professor
PhD - IIT Bombay

12 Years of Experience



ASHISH KUMAR

Assistant Professor
PhD - IIT, Kharagpur

7 Years of Experience

PLACEMENTS

52 LPA*

Highest Package

97%

Placement

1600+

Total Offers

18 LPA*

Top 10% Average CTC

OUR STUDENTS WORK AND INTERN AT

Consulting

BAIN & COMPANY

McKinsey & Company

Deloitte.

accenture



Energy



ExxonMobil



adani Power



Big Tech



ORACLE



Infosys



Engineering, Manufacturing and Mobility

SIEMENS

IndiGo



Consumer, Retail and Logistics



DELHIVERY



BFSI



S&P Global

BARCLAYS



and more...

HOLISTIC DEVELOPMENT



SAMARTH

Samarth provides real workplace exposure through internships in start-ups and government departments. These experiences strengthen creativity, problem-solving, and the confidence needed for future-ready leadership.

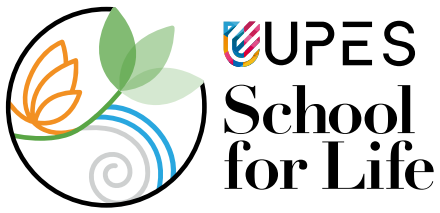
HIMALAYAN FELLOWSHIP

The Himalayan Fellowship offers a month-long learning journey in the Himalayas, encouraging sustainability awareness, adaptability, and grounded leadership through close interaction with local communities.

SRIJAN SOCIAL INTERNSHIPS

Srijan Social Internships engage students in community-focused projects with NGOs, nurturing empathy, social awareness, and a strong sense of purposeful contribution.

BUILDING LIFELONG CAPABILITIES



UPES has pioneered India's first dedicated life-skills training module through the School for Life movement, enabling students to be life-ready with timeless abilities that outlast macro shifts and technological disruptions. Through immersive bootcamps and continuous micro-learning, learners build clarity, resilience, self-leadership, and the confidence to thrive in any future. Delivered through podcasts and concise, snackable content, the program fosters global citizenship, cultural awareness, and social responsibility.

270+ Hrs
of Immersive Learning

97%
Student Turnout in
Class



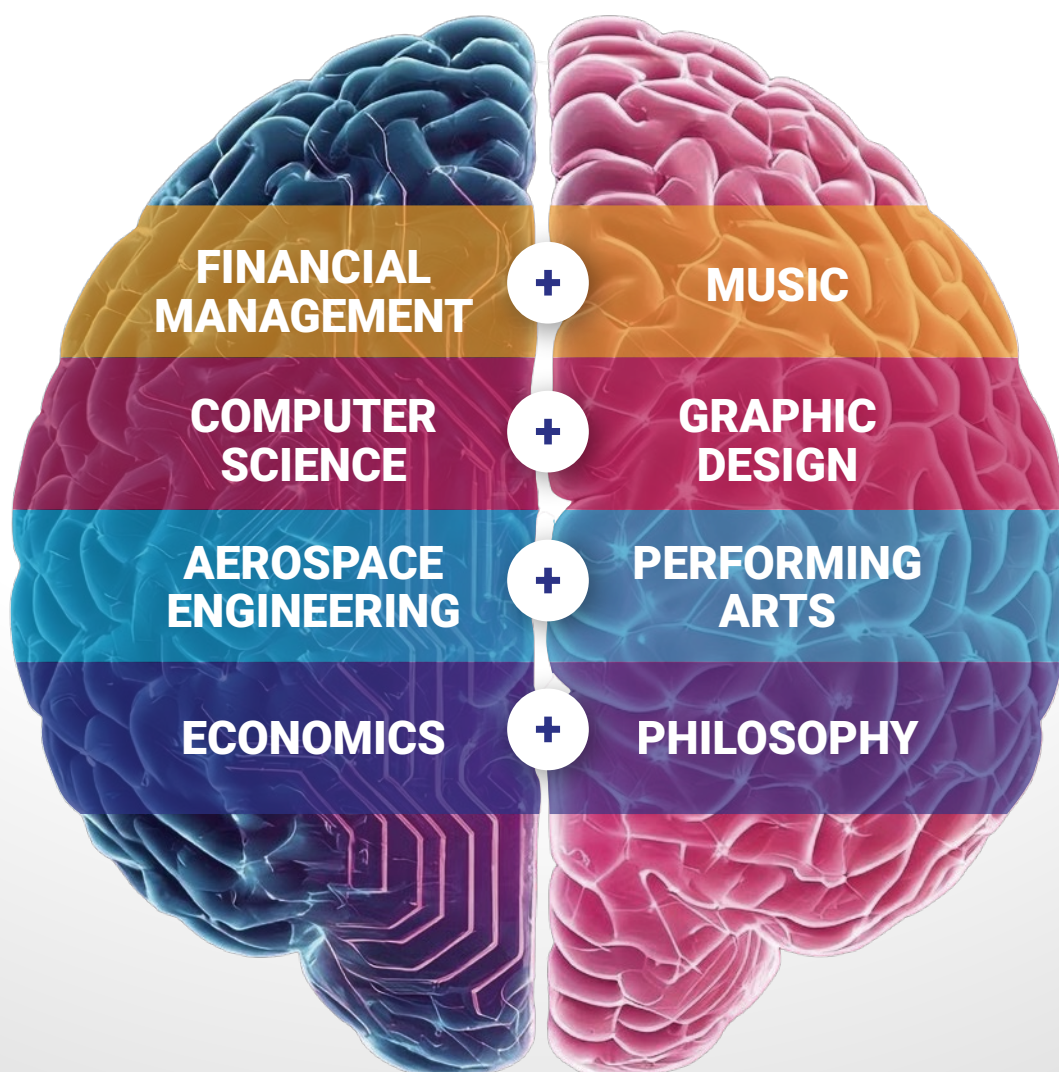
DESIGN YOUR OWN DEGREE

DABBLE IN CREATIVITY BECAUSE YOUR AMBITIONS SHOULDN'T FIT INTO A TEMPLATE.

Learning at UPES is flexible and personalised. Students have the freedom to curate an academic journey aligned with their interests, career goals, and evolving aspirations.

Students can choose from a wide spectrum of interdisciplinary options, specialisations, and electives to create a degree that reflects their strengths and future ambitions. Whether they combine technology with music, philosophy with economics, or health sciences with innovation, the possibilities are intentionally flexible.

150+ EXPLORATORY COURSES ACROSS DISCIPLINES*



and more...

NEXT-GEN LAB FACILITIES

UPES has built a strong culture of research and innovation through dedicated Centres of Excellence and prestigious projects supported by national and international funding bodies. With an ecosystem that promotes interdisciplinary collaboration and real-world impact, UPES enables cutting-edge, solution-driven research through:

CENTRE OF EXCELLENCE



➤ Bajaj Engineering Skills Training Centre (BEST)

➤ Machine Intelligence Research Centre (MIRC)

➤ Centre of Data Analytics and Insights

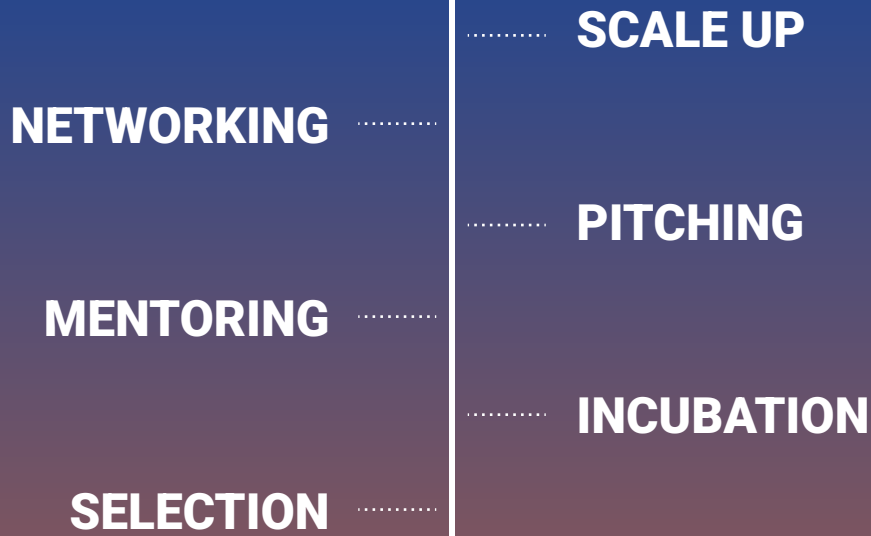
➤ Agile Software Innovation Lab

➤ Cybersecurity and Digital Forensics

➤ Cloud and Smart Connectivity Hub

➤ AR/VR and Spatial Computing Studio

➤ Quantum Computing and Advanced Math Lab



Runway creates an environment where entrepreneurship grows with confidence and clarity. It supports young innovators in transforming bold ideas into viable, investment-ready ventures through access to expert mentors, real industry challenges, and practical resources. From foundational learning to accelerator collaborations and high-impact events, the platform provides everything needed to build meaningful ventures directly from campus.

240+
Start-ups
Incubated

110 Cr+
Valuation

PRESTIGIOUS GRANTS



₹50 Lakh CSR grant awarded to accelerate the growth of emerging start-ups.



₹5 Cr Grant awarded to support and scale tech-focused start-ups through iTBI.



₹4 Cr Funding received to support early-stage health-tech innovations.



₹2.5 Cr Support received through the MeitY Genesis scheme for start-ups working on social-impact solutions.



₹5 Cr Grant approved by NITI Aayog to establish the ACIC (Atal Community Innovation Centre) at UPES.



₹2 Cr Grant sanctioned to set up the UPES State Business Incubator.

CLASSROOM IN THE HILLS

In Dehradun, learning truly thrives beyond classrooms. Away from the rush of metropolitan chaos, the UPES campus sits close to trekking trails, rock climbing routes, peaceful monasteries and the scenic hill station of Mussoorie. Surrounded by the mighty Himalayas and dense pine forests, the campus creates an environment that inspires focus, creativity and exploration.

FRESH AIR.
FRESH MINDS.

AQI
UNDER 100

WHAT'S AROUND YOU

RAJAJI NATIONAL PARK

📍 52 KM



MINDROLLING MONASTERY

📍 26 KM



KALSI-DAKPATHAR ROAD DRIVE



MUSSOORIE

📍 50 KM



RISHIKESH

📍 58 KM



BHADRAJ HILL TEMPLE AND TREK

📍 64 KM



DAYARA BUGYAL TREK

📍 257 KM



LIFE AT UPES

LIBRARY
FOOD COURTS
WI-FI ENABLED
CAMPUS
GYM



Life at UPES feels like a refreshing escape from monotony, offering the calm, clarity, and inspiration needed to nurture talent, spark deeper thinking, and fuel creativity and innovation.

Campus Living

- Medical Support
- Safe and Sanitized Accommodations
- Hostel Access Control
- 24x7 Security and Surveillance
- Transport Services
- Mess and Food Outlets



Connect and Engage

The university hosts 20+ student chapters and technical clubs, including IEEE, ACM, Google Developer Student Clubs, the Society of Petroleum Engineers, and the Microsoft Technical Community. These platforms enable hands-on learning, industry exposure, and collaborative innovation through hackathons, workshops, and technical events, keeping campus life active and future-focused.

SPORTS FACILITIES

- CRICKET
- BASKETBALL
- FOOTBALL
- PICKLEBALL



Sports and Fitness

The campus promotes a vibrant sports culture with structured practices, inter-department tournaments, quality courts, trained instructors, and opportunities for both recreation and competition.

EXPERIENCE CENTRES

Visit us for more guidance

KOTA

Shivam Residency
Narcotics Office Road,
Mahaveer Nagar-1,
Kota, Rajasthan

+91-7976973292

DELHI

Regus
15th Floor, Eros Corporate
Tower, Nehru Place,
New Delhi

+91-9311355760

LUCKNOW

Vision Space
4th Floor, BBD Viraj Tower,
Vibhuti Khand, Gomti Nagar,
Uttar Pradesh

+91-9311957245

JAIPUR

Workhauz
Plot No. 3, Power House,
Mirza Ismail Rd., Rajasthan

+91-9599038734

PATNA

Om Kashyap
Kavi Raman Path, Nageshwar
Colony, near Gold Gym, Bihar

+91-9599038725

GUWAHATI

Office Tribe Coworking
1st Floor, Shreeji Tower,
G.S. Road, Assam

+91-9289371425

NOIDA

The Iconic Correnthum
2nd Floor, Tower C,
Sector 62,
Uttar Pradesh

+91-9599038738

INDORE

Brilliant Centre Smartworks,
Ground Floor, New Palasia
Road, Indore, Madhya Pradesh

+91-9311957251

KOCHI

**Incuspaze
Coworking Space**
3rd Floor, Kochi OberonMall,
Pativattom, Edappally, Kerala

+91-9599038729



ADVANCED ENGINEERING | COMPUTER SCIENCE | DESIGN | BUSINESS |
LAW | LIBERAL STUDIES AND HUMANITIES | HEALTH SCIENCES AND TECHNOLOGY

☎ **1800 102 8737 (10 AM to 7 PM)** |  **+91 7303468002**
enrollments@upes.ac.in | www.upes.ac.in

International applicants can connect with us at:
international.admissions@upes.ac.in

UPES Campus

Kandoli Via Prem Nagar, Dehradun, Uttarakhand - 248007, India
Bidholi Via Prem Nagar, Dehradun, Uttarakhand - 248007, India

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