

Faculty of  
**Engineering  
Sciences & Technology**

**B.Tech | Integrated B.Tech + MBA | M.Tech**

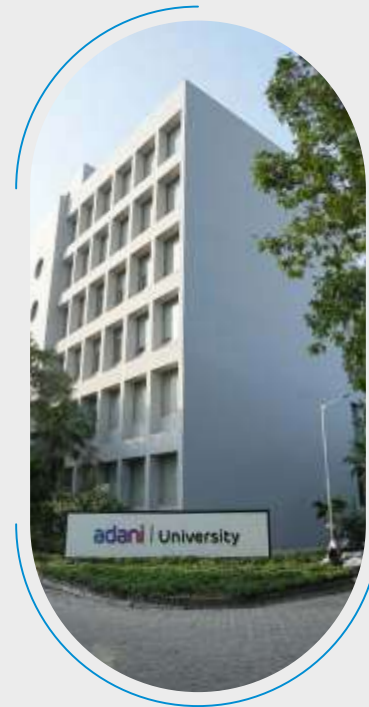


## Adani University

With a vision to educate and empower the youth, encourage transformative research that focuses on real-world problems, and contribute to global sustainability via excellence at all levels, the Adani Group – one of India's largest transport and utility infrastructure conglomerates with inspiration from the infrastructure visionaries of India – Shri Gautambhai Adani and Dr. Priti G Adani– established the Adani University in India's enterprising State of Gujarat.

With the major thrust on education for transformation, Adani University is engaged in building a state-of-the-art futuristic institution for education, training, and research that shall disseminate managerial and technological knowledge of the highest value through impactful industry engagement and multidisciplinary research.

Five thrust areas namely Infrastructure, Technology, Healthcare, Energy, and Defense are the focus of university programs, while the approach is broad and complementary. Adani University is a research-intensive institution that seeks to address and impact real-world problems. Research, formal and non-formal programs for doctoral, post-graduate and undergraduate degrees, and certification programs at the intersection of disciplines are offered at the University.



## Faculty of Engineering Sciences and Technology (FEST)

The Faculty of Engineering Sciences & Technology (FEST) provides a diverse selection of programs to educate and prepare students to apply contemporary knowledge and technological advances in various domains such as CSE, ICT, Applied Sciences, and CIE. Our devoted and experienced faculty strive to equip students with the skills necessary to develop innovative technological advancements.

The curriculum and course structure at FEST offer academic flexibility and some programs incorporate a choice-based credit system, making it compliant with NEP-2020. In addition, students have access to state-of-the-art labs and can benefit from professional body memberships.

### Salient Features

- State of the Art Infrastructure: A campus designed with state-of-the-art amenities and latest equipment make the environment sustainable in the department.
- Faculty Strength: Faculty members with doctoral degrees, specialized in varied domains of CSE, ICT and CIE call for a strong academic ecosystem in the department.
- Well-Designed Curriculum & Course Structure: The curriculum has been fine-tuned, as per the latest industry expectations.
- Academic Flexibility: Students have the option to choose electives from specialized courses in respective domains with the aim to enhance their skills and devising scope for employment and entrepreneurship.
- High-end Labs: Labs are comprised of both software and physical facilities, including project management labs, construction management labs, and various others as the curriculum demands advanced machinery with high-end configurations and specialized software.
- Research Facilities with GIS, Project Management, Electronics design, IoT and Sensor, Communication with high processing power AI/ML/Deep Learning workstations with GPU with latest configuration is available for research.
- Placements: Placements assistance with mock drives and interviews, internships assistance, communication enhancement sessions and guidance from industry experts are regular features.
- Holistic Development of Students: A mix of curricular, co-curricular and extra-curricular activities helps in grooming the personalities of students. Coming right from the school environment, department cultures the students with skill and professional development activities.
- Professional Body Memberships: Association for Computing Machinery (ACM), Computer Society of India, IEEE, and IEEE Women in Engineering (WIE), Indian Green Building Council, Institution of Civil Engineers (ICE-UK), ICI are cherished affiliations of students and faculty who are engaged in activities in relevant areas.

# Bachelor of Technology

(4 -Year full-time degree program)

## Computer Science and Engineering

(Artificial Intelligence & Machine Learning)

The department of CSE (AI-ML) offers a 4-year full time B. Tech. degree with advanced curriculum on Artificial Intelligence and Machine Learning specialization. A course designed to develop intellectuals and professionals of high order, potentially focused to face the future technological challenges. The department is geared with a strong foundation with pedagogy and research blended into teaching-learning paradigm. The program offers updated courses on core, applied and innovation-driven computer science curriculum with hands-on laboratories designed on the latest technological streams of study. The take-away from this program enlists a comprehensive knowledge in a wide range of topics pertaining to Deep Learning, Computer Vision, Neural Networks, Data Analytics, and Expert Systems. The specialization courses are designed such that they help prospective graduates for professions in automated Agriculture, Health Care, Manufacturing, Education, and Public Utilities.

### Facilities

Programming Lab

High Performance Computing Lab

AI-ML Lab

Data Analytics Lab

Network and Security Lab

Systems Lab

Communication Lab

Simulation Lab

Microprocessor and Sensor Lab

## Information and Communication Technology

This program is at the intersection of 3 core engineering branches: computer engineering; information technology; electronics and communication engineering. It aims for an integrated communication system to meet contemporary communication requirements. In today's industry 4.0 era and advancements in emerging technologies, information Communication & Technology (ICT) plays a significant role. Industry 4.0 without ICT is devoid of its soul. It covers the strengthening, retrieving, manipulating, transmitting, and receiving of the information vital to major sectors like infrastructure, defense, healthcare, and energy sectors amongst others.

### Facilities

Applied Physics Lab

Electronics Device Lab

Operating System Lab

Digital Electronics Lab

Analog & Digital Communication

Embedded System Lab

Signals & Systems Lab

IoT & Sensors Lab

Computer Programming Labs

AI-ML Lab

Design Lab

Wireless Communication Lab

Microprocessor & Microcontroller Lab

Simulation Lab

Data Communication & Networking Lab

CAD Lab

## **B.Tech Admission Eligibility**

- As per guidelines of Admission Committee for Professional Courses (ACPC), Govt. of Gujarat
- For Management Quota through JEE (Main) or CUET, as per Admission Policy of Adani University , For further information, contact Admission Office

## **B.Tech Program Edge**

- Backed by the largest integrated infrastructure conglomerate.
- Experienced faculties with expertise in current domains of research and industry.
- Advanced campus with state-of-the-art amenities equipped with the latest instruments.
- Extensive industry interface and internships.
- Highly equipped laboratories specialized with edge-cutting technologies such as High-Performance Computing,
- Artificial Intelligence, Machine Learning, and Computer Vision, to name a few with the latest hardware like GPUs.
- Project-based learning with the latest computer programming languages and Hands-on knowledge of useful software like AutoCAD, StaadPro, Primavera, MATLAB, Multisim, and Bentley suite.
- Handholding and assistance to the students in participating in international forums.
- Options for Extra Tracks available in Minor, Micro, Nano Tracks  
<https://www.adaniuni.ac.in/extratracks/>

Scan for  
Extra Tracks



## **Integrated B.Tech (Civil and Infrastructure Engineering) + MBA (Project Management)**

The integrated B.Tech (Civil & Infrastructure Engineering) + MBA (Project Management) program at Adani University aims to produce manpower for specialized infrastructure projects by integrating the technological and managerial aspects of infrastructure development. The curriculum focuses on balanced practical and theoretical aspects of infrastructure planning, project management, digital twins, automation in civil infrastructure, and business skills. It includes modules on Geospatial analysis, tunnel engineering, infrastructure planning, project management, metro-system planning, valuation of infrastructure, strategic management, project finance, operations management, and risk management.

The 5-year integrated B.Tech (Civil & Infrastructure Engineering) + MBA (Project Management) program at Adani University offers an opportunity to develop comprehensive and holistic skills needed to thrive in the civil infrastructure industry. With its forward-looking curriculum, the program not only addresses the current talent requirements, but prepares graduates for the future challenges and opportunities of the civil infrastructure sector not only in India but also around the world.



## **Program Edge**

- Fully NEP-2020 compliant program with multiple entry and exit options,
- Options to earn “BSc” after 3-years, “BTech (Honors)” and “BTech with minor in Project Management” after 4-years,
- Unique integrated program having balanced 50:50 techno-managerial components, and equal theory and practical components weightage.
- Student choice-based electives with hybrid pedagogical model to build domain specific futuristic skills in infrastructure sector,
- Departmental Board of Studies has serving members from reputed international academia, national institutions of repute, and industry leaders from Nihon University Japan, California State University USA, Howe Engineering Projects India, CBRI Roorkee, and Adani Group to help design the program,
- Faculty drawn from international infrastructure background including corporate conglomerates are teaching the course, Many Adjunct Professors from the Adani Group teach the course with their experiences of Infrastructure sector.
- Immersive visits to mega infrastructure projects such as Seaport at Mundra; Airports at Ahmedabad, Jaipur, Lucknow, Mumbai; Greenfield Airports at Navi Mumbai; Urban rehabilitation project like Dharavi; Green energy park at Khavda (Kutch).
- Industry internship opportunity with latest infrastructure projects
- Skill based learning on latest computer software such as Staad Pro, Primavera, GIS, Autodesk, Revit, BIM.
- A bouquet of elective courses through MOOCs created from famous online resources to help students get a Honors degree.
- There could be a semester-abroad program with reputed university across the world.

## **Program Facilities**

<b>Advanced Material Testing</b>	<b>Advanced Geotechnical</b>
<b>Advanced Transportation</b>	<b>Advanced Surveying</b>
<b>Structure Analysis</b>	<b>Environment Technology</b>
<b>Green Chemistry</b>	<b>Fluid Mechanics</b>
<b>Mechanics of Solid</b>	<b>High Computation and Simulation</b>
<b>Applied Physics</b>	<b>Design Engineering</b>
<b>IoT &amp; Sensor</b>	<b>Building Information Modelling</b>
<b>Data Science</b>	<b>Project Management</b>

## **Admission Eligibility**

1. 10+2 in Science Stream or equivalent from any recognized board in India with Physics, Mathematics and Chemistry as subjects having minimum 60% marks or equivalent grade in aggregate.
2. JEE (Main) or CUET-UG 2024 or Adani University UG Entrance Test (AUET 2024) score will be considered for admission.

# Master of Technology

(2 -Year full-time degree program)

## Construction Engineering & Management

It aims to develop manpower for infrastructure industry by training students for the needs of tomorrows such as sustainable engineering solutions, green economy, societal and environmental impacts of project management. The course offered for the PG program are sustainable construction practices, asset management, construction project scheduling and control, advance construction materials, carbon pricing of building material, BIM, green buildings, business analytics, academic and industry project works through software skills.

### Program Edge

- Innovative Pedagogy which incorporates hands on learning, and creating solutions
- Continuous Industry contact to ensure skill acquirement and industry ready learning
- Teaching Modern tools such as Total Station, GPS, etc and software for each domain, such as STAAD Pro, Primavera, AutoCAD, QGIS, and Bentley Suite.

### Facilities

Asset Management

Advanced Construction Materials

Building Information Modelling

Carbon Pricing of Building Materials

Construction Finance Accounting

Research

Sustainable Construction Practices

Project Management

### Admission Eligibility

- Candidates must have BTech/ BE (Civil engineering, environmental engineering/ construction engineering), BArch, Bachelor of Planning or equivalent degree with minimum 60% aggregate passing marks or equivalent grades. GATE or NET or APET 2024 qualified candidates will be preferred.



# Be Work Ready, Be World Ready

## Career Development Cell

Career Development Cell is associated with 250+ companies from different domains to support activities like Campus Placement, Industry Internships, Expert Lectures, Projects, Workshops and Industrial Visits.

Career Development can be defined as the assemblage of psychological, sociological, educational, physical, and economic factors that combines to influence the nature and significance of work in the total lifespan of an individual. Career Development Cell at Adani University leaves no stone unturned in achieving the excellence and personality development of our students. A rigorous academic regimen supported with CDC's year-round skill development, nurturing & extracurricular activities not only broaden student's knowledge base and skill set but also imbibe in them the feeling of social and individual responsibility. We aspire to bridge between academia and industry.

### Prominent Corporate Partners: Summer and Final Placements

				and many more...		



## Admissions

If you have the potential to succeed in an academically challenging and innovative environment, we look forward to receiving your application.

  **90999-00872** |  **admissions.fest@adaniuni.ac.in**

[Apply Now](#)



Reach us:  
Adani University  
Shantigram, Ahmedabad, India

[www.adaniuni.ac.in](http://www.adaniuni.ac.in)

     /adaniuniversity