



Faculty of  
**Engineering Sciences & Technology**  
(FEST)

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**B.Tech | M.Tech**



Translate  
Transcend  
Transform

## Adani University

With a vision to educate and empower the youth, to encourage transformative research that focuses on real-world problems, and to 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 and visionaries of India – Shri Gautambhai Adani and Smt. Pritiben Adani – has established the Adani University in the enterprising State of Gujarat in India. With major thrust on education for transformation, Adani University will be engaged in building 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, will be the focus of university programs, while the approach will be broad and complementary. Adani University will be a research-intensive institution that seeks to address and impact real-world problems. Research, formal and non-formal programs for doctoral, under-graduate and post-graduate degrees and certification programs, at the intersection of disciplines, will be offered at the University.



## Faculty of Engineering Sciences and Technology (FEST)

Engineering and Technology underpins all facets of modern life and evolves at relentless speeds. Our purpose is to educate our students to participate in creating and applying contemporary knowledge and technological advances to make a difference.

### 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 call for a strong academic ecosystem in the department.
- **Well-Designed Curriculum & Course Structure:** The curriculum has been fine-tuned, core and AL-ML curated, as per the latest industry expectations.
- **Academic Flexibility:** Students have the option to choose electives from specialized courses in AI- ML or other domains (other than computer science) with the aim to enhance their skills and devising scope for employment and entrepreneurship.
- **High end Laboratories:** Requirements of the curriculum are sufficed with machines of high-end configuration and software installed in various labs.
- **Research Facilities 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) 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 (180 Seats) (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 (60 Seats)

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	Analog Electronics 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	
Operating System Lab		



## Civil and Infrastructure Engineering (30 Seats)

The continually evolving program B.Tech. Civil and Infrastructure Engineering will train the students in accordance with the industry demand and in alignment with an academic syllabus which is futuristic. Our program offers something unique wherein, we teach our students to be prepared for their professional career and also be life-long learners. We offer them courses not only for core subjects but also subjects which will ensure that they have wholesome development and achieve their full potential. The students benefit from the faculty, industry interaction, guest lectures on the current trends and technologies applicable to civil engineering, and research projects. The students are trained on a range of topics including designing, planning, construction, repair & maintenance and rehabilitation by the teachers, guest speakers, researchers, and industry experts who help us design our curriculum, delivery courses and provide industry experience by means of internships and industrial visits at site. The student shall gain knowledge to provide sustainable civil engineering solutions, considering environment and societal impacts.

### Facilities

Advanced Material Testing	Advanced Geotechnical
Advanced Transportation	Advanced Surveying
Structure Lab	Environmental Technology
Green Chemistry	Fluid Mechanics
Mechanics of Solid	High Computational and Simulation

### B.Tech Admission Eligibility

- As per guidelines of Admission Committee for Professional Courses (ACPC), Govt. of Gujarat
- For Management Quota through JEE (Main), 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/extratrails/>

Scan for  
Extra Tracks



## Master of Technology (2 -Year full-time degree program)

### Construction Engineering & Management (18 Seats)

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.

#### Salience and importance:

- 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.





## Faculty of Sciences (FoS)

Faculty of sciences (FoS) focuses on enhancing deep understanding of basic sciences (Physics and Mathematics), analytical abilities, and critical thinking among the learners. We adopt a Multidisciplinary, Interdisciplinary, and Transdisciplinary approach towards research cum teaching-learning in collaboration with other disciplines. Such collaborative working allows for effectiveness in the teaching learning processes translating into implementing inclusive solutions related to real world problems. At FoS learners get to have a hands-on training to solve problems with fundamental understanding of the science before applying it. FoS focuses on solution centricity to address issues of the planet and people.

## Research & Development, Innovation and Consultancy (RDIC), Adani University

Research & Development, Innovation and Consultancy (RDIC) aims on basic to applied research and development in six thrust areas of the University, including infrastructure, energy, advanced manufacturing, management, technology, applications of ICT and advanced manufacturing in defense and healthcare. We promote Multidisciplinary, Interdisciplinary, and Transdisciplinary research and development aligned with the sustainable development goals (SDGs). The RDIC focuses to train our students on providing innovative, cutting-edge consulting, solutions, and services to the business units. It is a platform to develop research culture among the students so that they will be able to create ideas and harness them to become future innovators and entrepreneurs."

## Department of Mechanical Engineering

To be truly innovative, mechanical engineers of the future need to understand the basics of mechanics, manufacturing, and systems while integrating aspects of other disciplines. With its collaborations across departments and institutions, the Department of Mechanical Engineering aims to educate the engineers of the future while conducting leading cutting-edge research in Advanced Manufacturing, AI and Design, Biosystems and Health, Computational Fluid Dynamics, Energy and Sustainability, Micro/nano engineering, Robotics and 3D printing (Additive Manufacturing).

## Department of Electrical Engineering

This department aims to impart cutting edge knowledge in the field of Electrical Engineering with flexible curriculum that integrates theory with industry practices with commitment to create impact in the society. It provides unique opportunity with a blend of multiple disciplines combined with hands-on training, latest research knowledge, practice in modern laboratories and innovative teaching pedagogy to enable effective learning of the next generation nation builders.

## Adani University's Center of Human Values (AUCHV)

The VUCA world of current times is facing more of a humane problem than a technological one. A well-rounded personality is the need of the hour – defined as "Holistic". Holistic professionals exhibit integrity at all levels – to self, society, organization and the nation. Education needs to facilitate individuals to be solution-centric, creative, resilient, adaptable, lifelong learners, inclusive and sensitive. Such individuals, as global citizens, drive technological tools and their advancements towards impactful growth, addressing sustainability issues while having a bias for inclusivity. For values to manifest, a facilitation platform is a must. Adani University's Center of Human Values (AUCHV) offers a 3-credit course every alternative semester starting from semester 2. Foundational values like Truth, Righteousness, Non-violence, Peace and Love are inherent in all humans. The course helps students to manifest values with confidence. Facilitation is through interactive lectures, group discussions, and practical exercises, encouraging introspection, reflection and critical thinking. Adani university is committed to nurturing well-rounded individuals who are "Holistic" global citizens.

# 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**

Reach us:  
 Adani University  
 Shantigram, Ahmedabad, India

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