Ahmedabad University

PLACEMENTS 2022

SCHOOL OF ENGINEERING AND APPLIED SCIENCE

AHMEDABAD

Ahmedabad University was founded in 2009 by Ahmedabad Education Society (AES), a non-profit educational foundation located in Ahmedabad. Ahmedabad University is envisioned to become a global leader that provides liberal arts education within a research university. Interdisciplinary curriculum, experiential learning environment, and research define an Ahmedabad education. We are reimagining the classroom beyond the physical walls and focusing on the whole development of each student in an engaging and nurturing environment.

Being located in the centre of a vibrant and entrepreneurial city, our education is contextually rich and globally connected. Our world-class education attracts 3500 students from twenty two states of India and seven countries.

Ahmedabad University is dedicated to foster continuous progress of self and society. We are transforming higher education in India. Our graduates bear the capabilities, attitude and values to excel in whatever field they choose to pursue around the world.

We recognise that social challenges and job opportunities are occurring at the intersection of various axes of influence, defined by disciplines (data, materials, biology, and behaviour), nature (air, water, forests, and land), sectors of impact (health, transport, energy, and education) and society (individual and community). Accordingly, Ahmedabad University strives to guide students on how to learn through interdisciplinary academics and real-life experiences that traverse these intersections. Research programmes at the University also embody this integrative philosophy.

We prepare leaders of outstanding character who will contribute significantly to their fields of study and practice. The University promotes independent mindedness and diversity across all dimensions of its activity and helps students to mature into critical thinkers who are analytically equipped, practically oriented, and contextually-aware global citizens.

Ahmedabad's dynamic learning environment is based on cross-disciplinary linkages between the arts, sciences, and professional disciplines. This forms the bedrock of the intellectual enterprise at the University and our research that builds knowledge which solves society's challenging problems. Our concern remains social, economic, and ecological development of local, national, and international communities.

SCHOOLS

- Amrut Mody School of Management

- School of Arts and Sciences

- School of Engineering and Applied Science

In addition to Schools, Ahmedabad University has Centres that provide students with a host of exciting opportunities. The Centres are also involved in a series of other projects: from research-oriented undertakings to on-the-ground interventions and the nurturing of young start-ups. All of these initiatives are open to student participation.

CENTRES

- Centre for Heritage Management

- Centre for Inter-Asian Research

- Centre for Learning Futures

- Global Centre for Environment and Energy

- Venture Studio

MESSAGE FROM THE DEAN
School of Engineering and Applied Science

Ahmedabad University is committed to providing an education that prepares students to think critically and creatively to emerge as independent thinkers and compassionate leaders. The School of Engineering and Applied Science (SEAS) has created a curricula that helps students grow intellectually, personally and professionally, so they may thrive and help others thrive.

The School's infrastructure is congenial to learning and comprises contemporary facilities, well equipped laboratories and fast growing library. Our students are also supported and mentored by a robust team of faculty, who are active researchers and engage students in their academic pursuits whenever possible. Additionally, the school facilitates professional and personal development through workshops, conferences and other extracurricular events organized on campus. We are confident that studying at School of Engineering and Applied Science will ensure a sound engineering education and a nuanced approach to real world challenges.

Professor Sunil Kale
Dean, School of Engineering & Applied Science
PhD Stanford University

The school delivers undergraduate and graduate engineering programmes with extensive students-centric pedagogies to produce excellent learning outcomes. Our project-based educational approach creates dynamic and pro-active graduates with capabilities for lifelong learning, complex problem solving, design and innovation and relating technology to society. We not only teach technology; we actively infuse the use of technology in ways that are impossible with conventional approaches.

Bachelor of Technology

The Bachelor of Technology programme at Ahmedabad University offers an entry point for careers and further studies in engineering and technology, while also preparing students for future roles as entrepreneurs and innovators. The unique curriculum offers a wholesome education, providing in-depth focus through Majors in different branches of engineering, alongside a robust multidisciplinary foundation in engineering, the humanities and the social sciences. Strong emphasis is laid on teamwork, design, learning-by-doing, project-based learning and developing communication skills. The education is contextualized within broad societal issues with sustainability being a common theme.

The underlying focus is on strong and rigorous fundamentals and concepts, application to engineered equipment and systems, and hands-on learning about products and equipment in a multi-subject setting within each Major. The pedagogy emphasizes questioning, experimenting and developing learning skills that will enable students to face careers where change is the norm. Apart from classroom instruction, students are provided exposure to the engineering of products and design methodology in a laboratory setting, using contemporary tools of analysis and design, including software packages widely used in engineering industries.

The School of Engineering and Applied Science offers three Majors within the Bachelor of Technology programme: Chemical Engineering, Information Communication Technology, and Mechanical Engineering. The core courses of each Major provide in-depth knowledge specific to the concerned branch, while a set of courses called Engineering Foundation, which is common to all Majors, imparts foundational knowledge and skills in topics fundamental to Engineering in general.

BTech Major in Information Communication Technology

The curriculum design of the Major in Information Communication Technology is in keeping with the multidisciplinary emphasis of the BTech programme as a whole. It combines a rigorous grounding in the field of computer science with added emphasis on the physical and architectural design of modern computer systems. Based on the breadth of the training provided in Computer Science and Computer Engineering, graduates will be able to design, develop and deploy computing systems across the hardware–software spectrum. The core courses introduce students to themes such as basic electronic circuits, data structures, digital design, operating systems, database management system, computer organisation, computer architecture, algorithm design, computer networks, embedded system design and models of computation. These courses will enable students to develop expertise as well as widen their competence through exposure to global perspectives in the areas of data science, cyber physical systems, intelligent systems and theoretical computer science. The Information Communication Technology programme of Ahmedabad University prepares the students to be versatile to choose from diverse career paths. The education equips the students to go for research, higher education and employment alike with innovation and a multidisciplinary approach in Information Communication Technology, software engineering, hardware design, IoT, data analytics, and many others.

BTech Major in Chemical Engineering

The Chemical Engineering undergraduate programme equips students for successful careers in diverse areas that make up the chemical engineering profession. It also prepares students for advanced study in chemical engineering, as well as for the pursuit of other fields, such as science, law, medicine, business and public policy.

Chemical Engineering deals with the design and development of processes to transform raw materials, micro-organisms and energy into economically useful products. Traditionally, chemical engineers have been employed in industries such as petroleum refining, petrochemicals, fertilisers, bulk inorganic chemicals, polymers and textiles. In recent times, with increased emphasis on life sciences, the fields of biotechnology and pharmaceuticals also offer good opportunities for young chemical engineers. Many of the life-improving breakthroughs of the last century in areas such as health, agriculture, energy and the environment have been heavily dependent on advances in Chemical Engineering.

At Ahmedabad University, the unique curriculum of the BTech programme with a Major in Chemical Engineering exposes students to a range of General Education Requirement courses along with the Engineering Foundation courses. Apart from these, the students undergo four Foundation courses which provide a broad perspective and equip students with basic skills such as effective communication, programming, data analysis as well as the ability to think critically. Learning by doing is encouraged alongside a strong emphasis on student projects and research. Students have the opportunity to engage early on in research with faculty or with individuals in industry to gain in-depth understanding and acquire skills in specific areas. Not only are our programmes in sync with current technologies, several of our elective courses focus on skill sets and know-how that are currently in high demand.

BTech Major in Mechanical Engineering

The Major in Mechanical Engineering is structured around in-depth courses in the mechanics of machines, mechanical design, thermo-fluids, materials, manufacturing, and manufacturing systems. The use of simulation and design, and extensive hands-on courses on experimentation and design-to-manufacturing, are also incorporated in the coursework. The overall approach is to integrate the different subfields and bring out the cross-disciplinary nature of Engineering in general, and Mechanical Engineering in particular.

The curriculum is designed to address two aspects, viz., breadth in engineering via the Engineering Foundation coursework, and depth via the Major core courses. The focus is on strong and rigorous fundamentals, applications to engineered equipment and systems, and hands-on learning of products and equipment in a multi-subject setting. The pedagogy emphasises questioning, experimenting and developing learning skills to face a career where change is the norm. Students are exposed to the engineering of products and design in a laboratory setting using contemporary tools of analysis and design, including software packages widely used in engineering industries. Teamwork is emphasised alongside strong engineering skills.

Graduates in mechanical engineering are equipped for a variety of tasks spanning a range of industries, services, and other fields. Career paths include working in engineering concerns, entrepreneurship, and undertaking further studies in India or abroad. The cross-disciplinary focus of the curriculum equips graduates with the ability to learn and grow in new fields, which is essential to pursuing a successful career.

MTech (CSE) with Specialization in 'Data Science and Analytics'

The School of Engineering and Applied Science offers a two-year MTech programme in 'Information Communication Technology (CSE)', with a specialisation in 'Data Science and Analytics'.

In an increasingly competitive marketplace, organizations need skilled professionals to interpret a growing stream and variety of data. Increasingly, industry focuses on how "big data" can be used to help decision makers improve organizational competitiveness.

The MTech programme's data science and analytics specialisation is designed to meet this growing need. Our students gain hands-on experience with a variety of analytical tools available for the purpose of structuring large data sets, to unearth hidden information and patterns key to enterprise. Students also gain experience using different software tools and functions, including data mining, predictive modelling, and visual analytics using large data sets. Commercial and open-source tools are used to conduct analyses and build prototypes using real-world case studies and data sets. Case studies cover building predictive models in a variety of industries studies and data sets. Case studies cover building predictive models in a variety of industries

Listed below are a few participating organisations for placements:

ABB	DXFactor	Nobel Hygiene
AllinCall	e-Infochips	O2h Technology
AM Designs	Embibe	PetPooja
Argusoft	EronKan	Qualitrol
Ascent Finechem	Evosys	Quicko
Atmos Power	Forbes Marshall	RapidOps
Augmenify	Galaxy Surfactants	Secure Meters
AwaazDe	Gateway Technolabs	Shipmnts
BluPi	InfocusP	Silvertough Technologies
Bombay Softwares	InfoStretch	Simform
Bosch Rexroth	Intech Systems	SoluteLabs
BYJU's	IQM	Tatvic
Byte Prophecy	Maharshi Udyog	TCS
Cybercom	Maxxiss Rubbers	Thomson Reuters
Cygnet	Meditab	Torrecid India
Doshion	Meghmani	Veloxcore
DX Factor	Nirma	

Faculty at Ahmedabad University

Faculty at Ahmedabad University comes from leading institutes around the world, some notable Institutions are as follows:

- Clarkson University
- Cornell University
- Rutgers University
- Stanford University
- University of Cambridge
- University of Oslo and UiT
- University of Pittsburgh
- Inter-University Centre for Astronomy and Astrophysics (IUCAA)
- Queen's University at Kingston
- University of Texas at Arlington
- Indian Institute of Science
- Indian Institute of Technology
- Institute of Chemical Technology
- Gujarat Vidyapith

The complete list of Faculty at Ahmedabad University can be viewed at https://ahduni.edu.in/Faculty

Ahmedabad University

We at Career Development Centre Ahmedabad University look forward to connecting with you to take our relationship forward and engage in inclusive industry-academia association in the area of Talent Acquisition, Joint Research, Faculty project, MDPs, etc.

We would be glad to assist you with your queries and provide solutions to your talent acquisition and questions, please feel free to reach out to us:

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