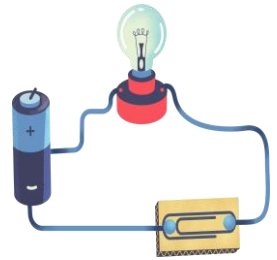
Sahand University
of Technology

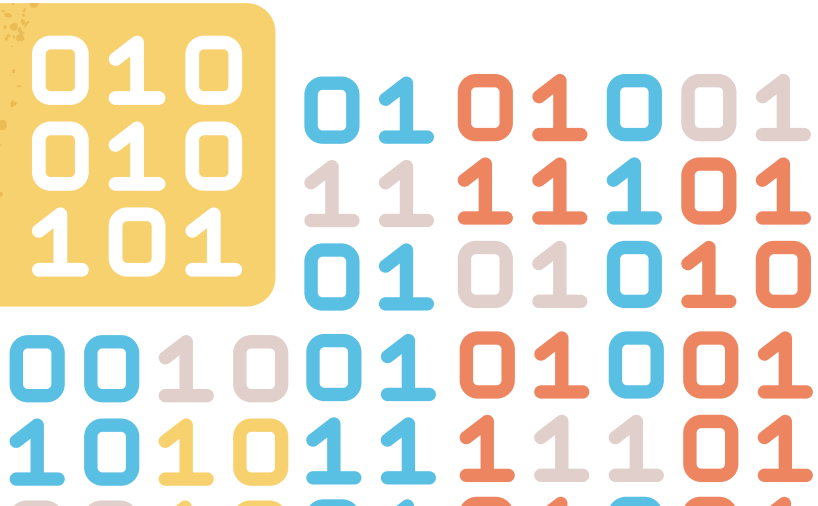
Faculty of Electrical and Computer Engineering

Sahand University of Technology



The **Faculty of Electrical and Computer Engineering** began its academic activities in the **1994–1995** academic year with the **Electrical Engineering – Control** program. Today, the faculty continues its educational and research mission with **29 faculty members** (including **10 Professors, 11 Associate Professors, 7 Assistant Professors, and 1 Lecturer**) and admits students at the **B.Sc., M.Sc., and Ph.D.** levels in **Electrical Engineering** (Control, Power, Telecommunications, and Electronics) as well as at the **B.Sc. and M.Sc.** levels in **Computer Engineering**.

The faculty is equipped with **11 educational laboratories**, including **Microprocessor**, **Measurement and Circuit**, **Digital Logic**, **Electrical Machines**, **Linear Control**, **Electrical Workshop**, **Basic Electrical Engineering**, **Electronics I & II**, **Industrial Electronics**, and a **Project Room**. It also hosts several **research laboratories**, such as **ICT**, **Microelectronics**, **Computer Networks**, **Advanced Control**, **Renewable Energy**, and **Power Electronics**, supporting research projects and providing scientific services to researchers and scholars.

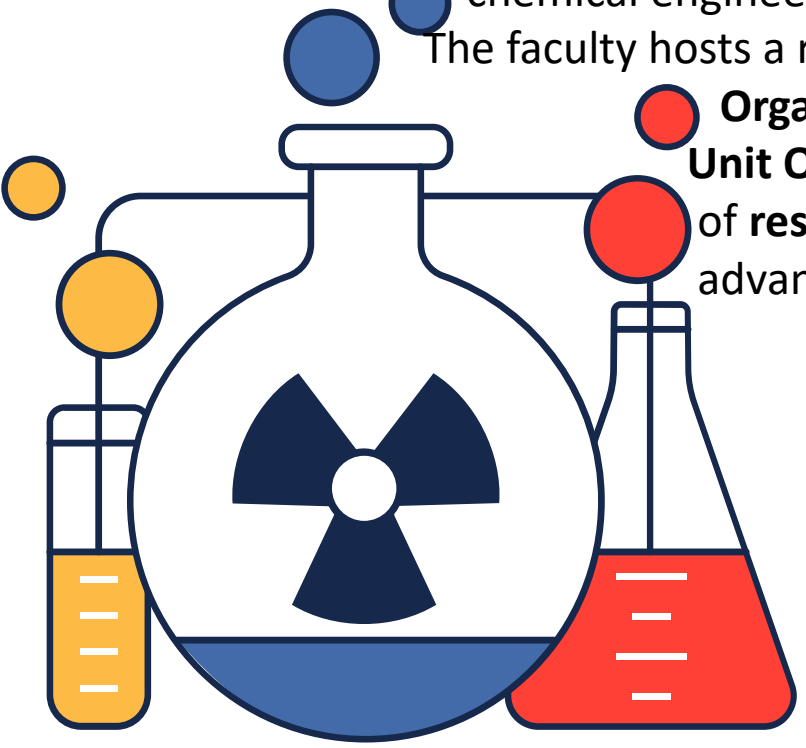


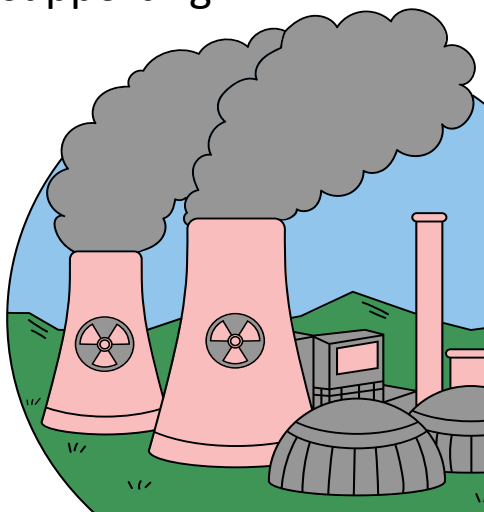
Faculty of Chemical Engineering

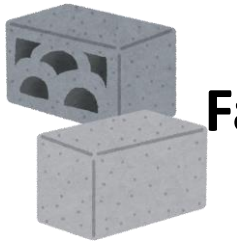
Sahand University of Technology

The **Faculty of Chemical Engineering** (established in **1991**) is one of the founding faculties of **Sahand University of Technology**. Since its establishment, it has focused on training skilled professionals in areas related to **oil, petrochemicals, gas**, and their **processing and purification**, as well as **process design and control**, **biotechnology**, **energy conversion**, and **environmental engineering**. To date, more than **2,700 students** have graduated from its Chemical Engineering programs across all academic levels.

With nearly **32 years** of academic and research activity, the faculty is recognized among the leading chemical engineering faculties in the country and currently operates with **29 faculty members**. The faculty hosts a range of educational laboratories—**General Chemistry**, **Analytical Chemistry**, **Organic Chemistry**, **Physical Chemistry**, **Fluid Mechanics**, **Process Control**, **Unit Operations**, **Heat Transfer**, and **Biotechnology**—alongside a comprehensive collection of **research laboratories**, **research centers**, and **specialized workshops** supporting advanced academic and industrial research.







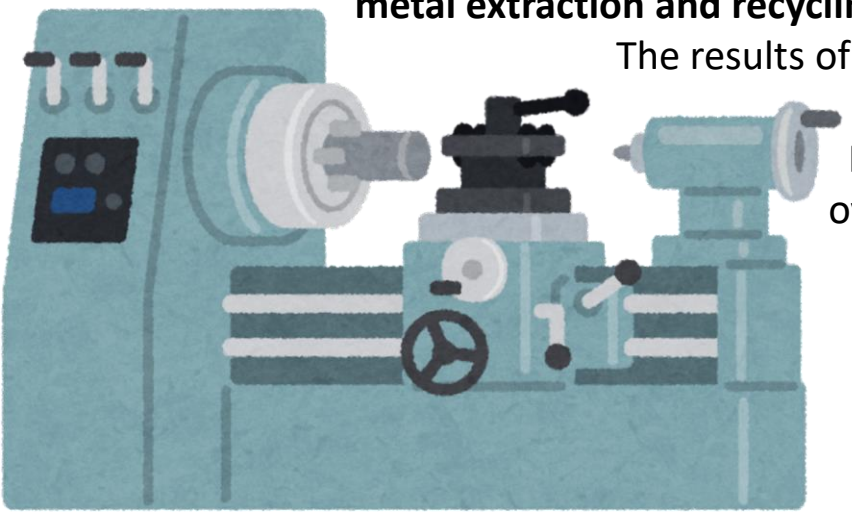
Faculty of Materials Engineering

Sahand University of Technology

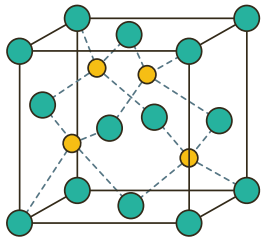
The **Faculty of Materials Engineering** at Sahand University of Technology began its activities in **1990**. The faculty currently employs **18 full-time faculty members** (including **8 Professors, 5 Associate Professors, and 5 Assistant Professors**) and hosts approximately **350 undergraduate students** and **200 postgraduate students**. In line with the Ministry of Science's policy on merging undergraduate programs, student admission at the bachelor's level is currently offered in **Metallurgical Engineering**, while at the master's level, the faculty offers programs in **Materials Selection and Characterization, Welding, Nanomaterials, Extractive Metallurgy, Corrosion, and Casting**. The **Ph.D. program in Materials Engineering** has been active since **2005**.

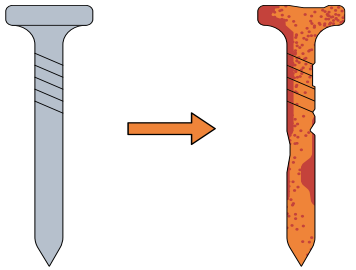
Considering its educational and research facilities, laboratory equipment, number of academic staff, and the strong academic performance of its graduates in higher studies, this faculty is recognized as one of the leading Materials Engineering faculties in the country and holds a top ranking among universities in **Region 3**.

The faculty comprises **nine educational–research laboratories** and a **research center** (the **Advanced Materials Research Center**). Beyond educating students, it conducts a wide range of research projects in **advanced steels, superalloys, welding and joints, shape-memory alloys, composites, biomaterials, powder metallurgy, surface engineering and coatings, corrosion and oxidation, metal extraction and recycling, casting, magnetic materials, renewable energies, and nanomaterials**.



The results of these studies have been published in reputable national and international journals. Considering the volume of publications, journal impact factors, and citation indices, the Faculty of Materials Engineering has played a significant role in enhancing the university's overall scientific standing, including its **QS ranking**.



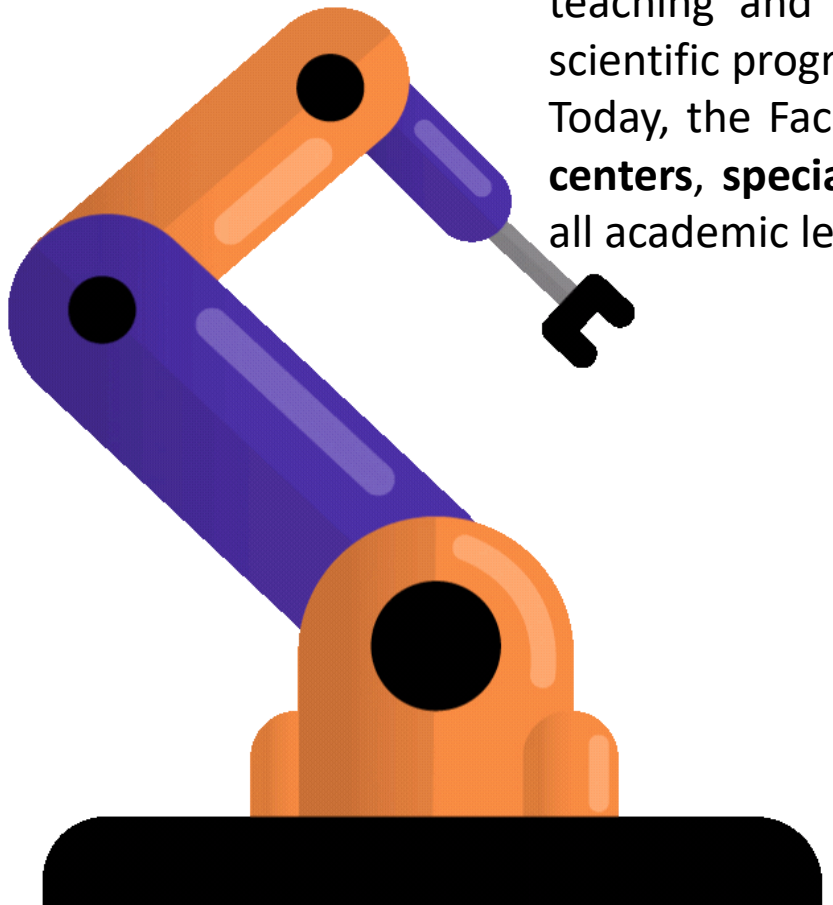


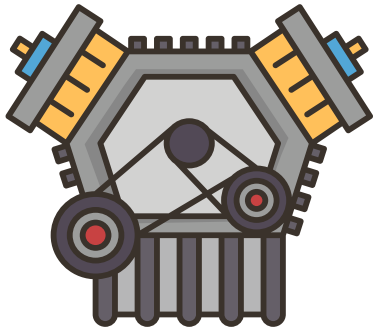
Faculty of Mechanical Engineering

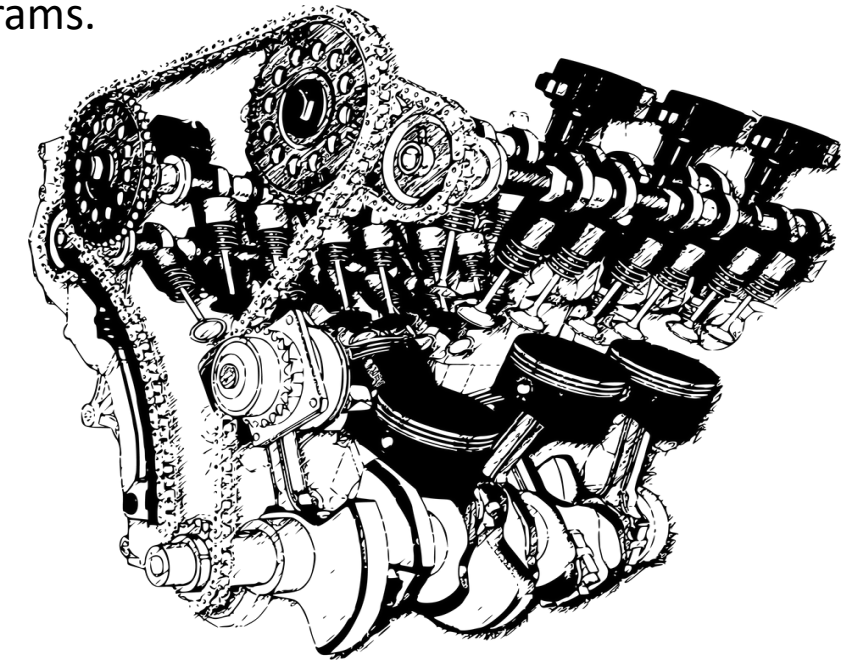
Sahand University of Technology

The **Faculty of Mechanical Engineering** began its academic activities in the **2001–2002** academic year with the admission of postgraduate students in Mechanical Engineering. With an experienced academic staff and well-equipped educational and research laboratories, the faculty continues its teaching and research missions in line with the strategic educational and scientific programs of the Ministry of Science, Research, and Technology.

Today, the Faculty of Mechanical Engineering encompasses multiple **research centers**, **specialized laboratories**, and **research units**, and admits students at all academic levels, including **B.Sc., M.Sc., and Ph.D.** programs.







Faculty of Petroleum and Gas Engineering

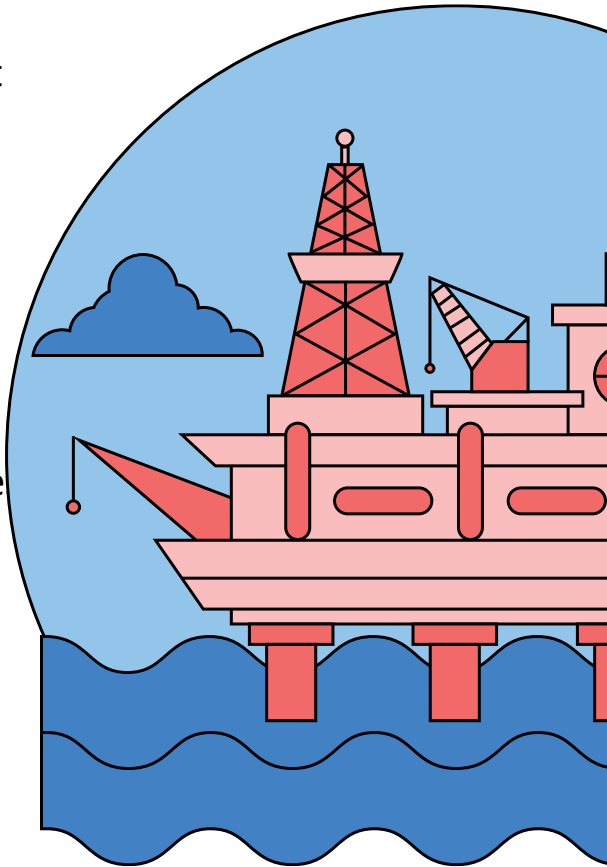
Sahand University of Technology

Sahand University of Technology has played a significant role in petroleum engineering education and research. The university's activities in this field began in **2003**, when it admitted its first **M.Sc. students in Petroleum Engineering (Reservoir Engineering)**. In the following years, the university expanded its graduate programs to include **Drilling**, **Production**, and **Exploration**. After obtaining the necessary approvals, the university also launched its **Ph.D. program in Petroleum Engineering**, with the first doctoral graduate completing the program in **2012**. The undergraduate program in Petroleum Engineering was later introduced in **2014**, marking another step in the development of this academic discipline at the university.

Recognizing the need for a specialized academic unit, the university approved the establishment of the **Faculty of Petroleum and Gas Engineering**, which officially began its activities in **2017** as the first faculty of its kind in the **north and northwest of Iran**. The faculty currently admits students at the **B.Sc., M.Sc., and Ph.D.** levels in Petroleum Engineering, and many of its graduates now work in major national oil centers, serving as influential professionals and managers within the industry.

Since **2015**, Sahand University of Technology has been designated by the Ministry of Petroleum as one of the **six selected academic institutions** serving as consultants for the **Soroush Oilfield Development Project**. In this capacity, the Faculty of Petroleum and Gas Engineering collaborate closely with the **Iranian Offshore Oil Company (IOOC)** as the project's client, along with several international oil companies, to develop and optimize plans for the field.

Additionally, the university's **Oil and Gas Research Center** supports the faculty by providing advanced laboratory facilities and conducting research and experimental studies related to petroleum engineering.

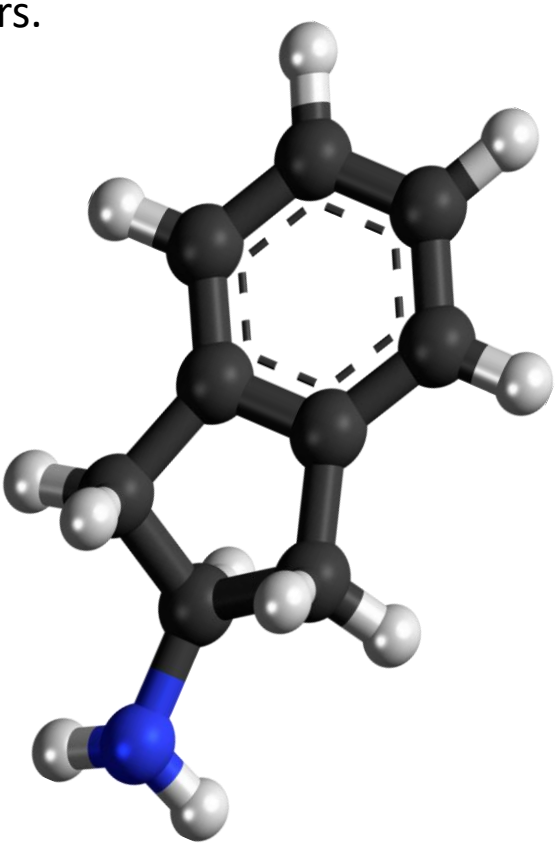


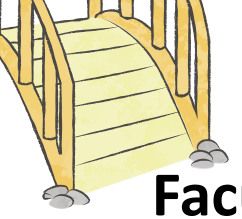
Faculty of Polymer Engineering

Sahand University of Technology

The **Faculty of Polymer Engineering** at Sahand University of Technology is the **second independent polymer engineering faculty in Iran**, established in **2008** with the admission of M.Sc. students. Despite its relatively short history, the faculty has gained significant recognition for its achievements and is now considered one of the leading faculties at Sahand University in terms of student education, publication of international scientific papers, patent registrations, research projects, and collaborations with reputable industrial and research centers.

The faculty currently enrolls **160 B.Sc. students, 180 M.Sc. students, 50 Ph.D. students**, and postdoctoral researchers. It offers educational, research, and professional training programs in various **Polymer Engineering fields**, including **Processing, Polymerization, Color, Nanotechnology, Biopolymers**, as well as **Chemical-Polymer Engineering**.
With a talented graduate student body and **16 mostly young faculty members** (6 Professors, 5 Associate Professors, and 5 Assistant Professors), supported by well-equipped research facilities, the faculty has a high potential for conducting diverse research projects. In addition to educational laboratories, the faculty hosts the **Polymeric Materials Research Center**, approved by the Ministry of Science (recognized as the national center for Styrene and Polystyrene), and the **Nanostructured Materials Research Center**.



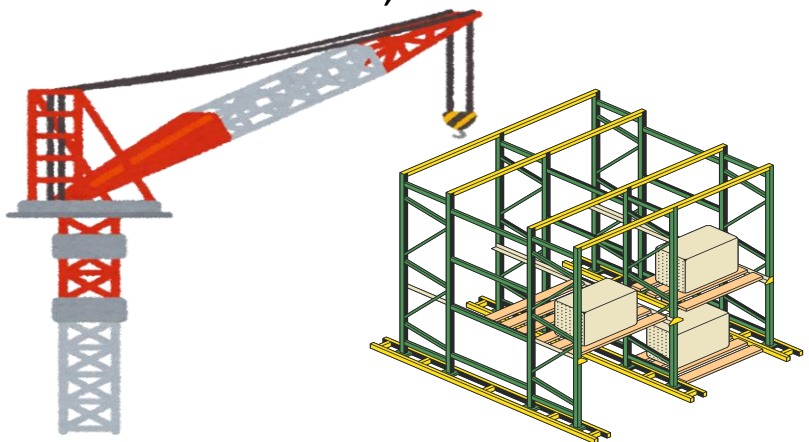


Faculty of Civil Engineering

Sahand University of Technology

The **Faculty of Civil Engineering** at Sahand University of Technology began its academic activities in the **1998–1999** academic year with the admission of **60 M.Sc. students** in **Structural Engineering**. Today, the faculty offers programs at the **B.Sc. level** in **Civil Engineering**, at the **M.Sc. level** in **Structures, Earthquake Engineering, Offshore Structures, Geotechnical Engineering, and Environmental Engineering**, and at the **Ph.D. level** in **Structures, Water and Hydraulic Structures, Coastal, Port and Offshore Structures, and Geotechnical Engineering**.

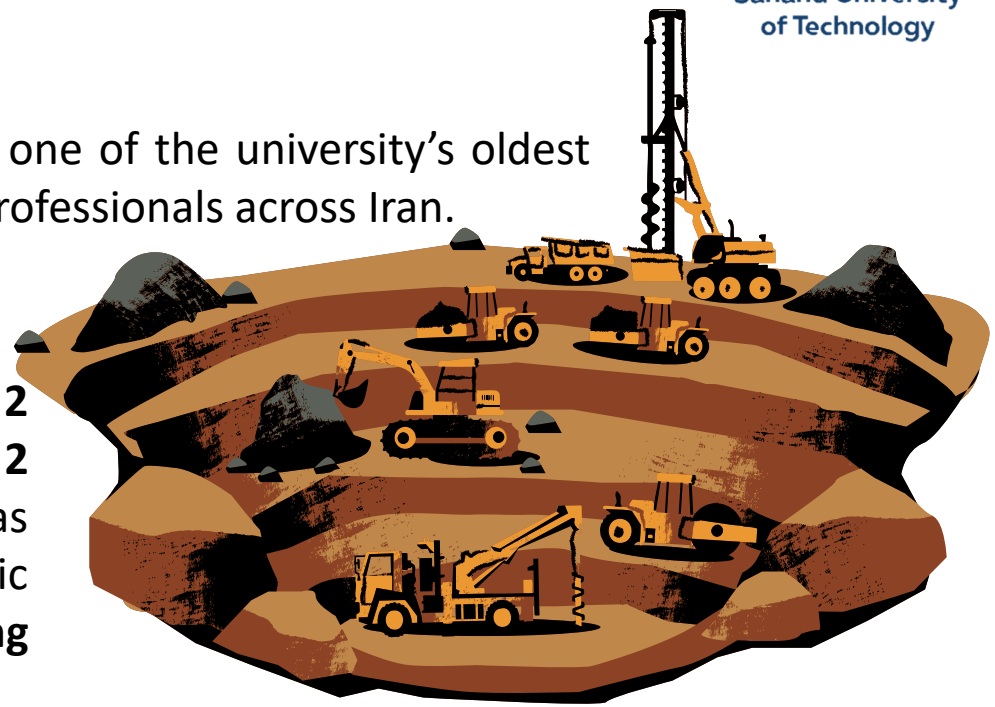
The faculty currently has **12 faculty members** and provides educational and research services through laboratories in **Concrete and Geotechnical Engineering**, **Structures**, **Hydraulics and Fluid Mechanics**, and **Pavement Engineering**. In addition, several research units operate under the faculty, including the **Earthquake Engineering and Seismology Research Center**, the **Building Materials Research Center**, the **Offshore Structures Research Center**, and the **Structural Health Monitoring Research Group**.



Faculty of Mining Engineering

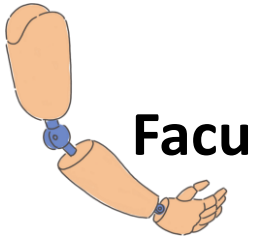
Sahand University of Technology

The **Faculty of Mining Engineering** at Sahand University of Technology is one of the university's oldest and most reputable faculties, well recognized among mining engineering professionals across Iran. Its faculty members and students publish numerous books and research articles each year in specialized mining-related fields.

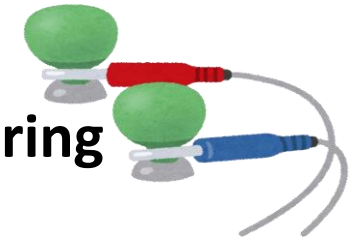


The faculty currently includes **19 academic staff members** (comprising **2 Professors, 5 Associate Professors, 10 Assistant Professors, and 2 Lecturers**). It offers programs at the **Associate level** (Varzeqan Campus), as well as **B.Sc., M.Sc., and Ph.D.** levels in Mining Engineering. Academic programs cover several key areas, including **Mining Exploration, Mining Extraction, Mineral Processing, and Rock Mechanics**.

In addition to its educational laboratories, the faculty operates several specialized research laboratories, including **Mineral Processing**, **Flotation**, **Rock Mechanics**, **Hydrometallurgy**, **Mineral Biotechnology**, **Optical Mineralogy**, **Geophysics**, and **Surveying**, supporting advanced research and training in mining engineering.



Faculty of Biomedical Engineering



Sahand University of Technology

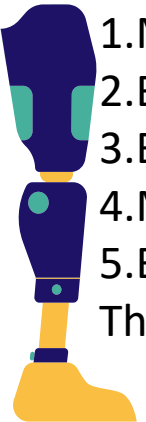
The **Faculty of Biomedical Engineering**, founded in **2017**, is the second independently established biomedical engineering faculty in the country. Notably, the university's involvement in this field dates back to **1997**, when the first cohort of Biomedical Engineering students began their studies within the Electrical Engineering program under the Bioelectric concentration.

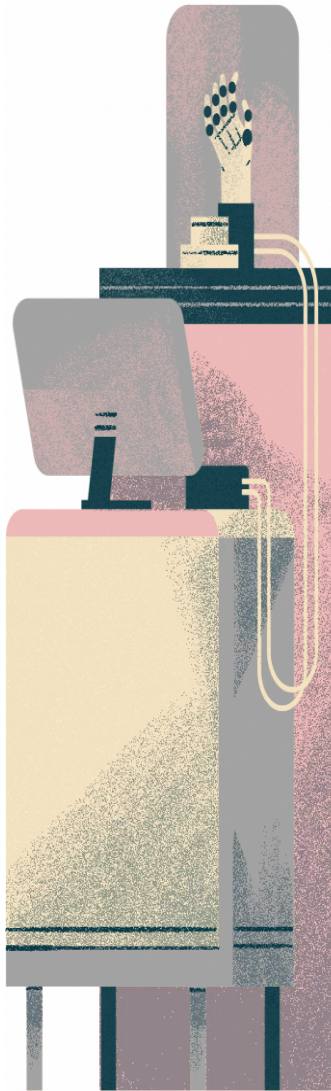
With a strong academic staff, exceptional educational and research laboratories, and one of the most diverse academic and research portfolios in the field, the faculty is considered a national pioneer, having graduated more than **850 students** to date. Alongside its contributions to training highly skilled engineers, the faculty has nearly three decades of impactful research achievements in areas such as: medical signal processing technologies, image-based analysis for facial surgery, modeling of biological systems, design and simulation of artificial heart valves, development of jaw reconstruction systems, extraction of foot anthropometric data, and finite-element simulation of mechanical behavior and adhesive properties of dental materials.

The faculty's research laboratories are organized into **five specialized domains**:

1. Medical Signal and Image Processing Laboratory
2. Brain Mapping Laboratory
3. Biofluids Laboratory
4. Musculoskeletal Biomechanics Laboratory
5. Biological Tissue Mechanics Laboratory

The faculty currently offers programs at all academic levels in **Bioelectric** and **Biomechanics** concentrations.





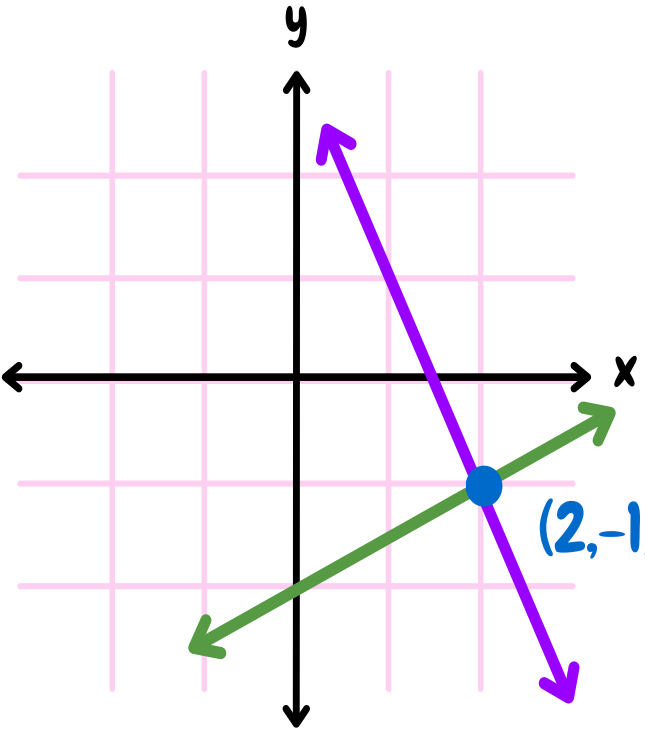
Faculty of Basic Sciences

Sahand University of Technology

The **Faculty of Basic Sciences** has been active since the establishment of Sahand University of Technology, initially providing foundational science courses and later expanding its academic programs in Mathematics and Physics. Admission to the M.Sc. programs in Mathematics and Physics began in **2004** and **2005**, respectively, and the faculty now offers programs at all academic levels.

The faculty currently includes **24 academic staff members**, with **256 enrolled students** and **379 graduates**. It is equipped with several educational and research laboratories, including **Basic Physics I & II Labs**, the **Advanced Solid-State Physics Laboratory**, the **Advanced Plasma Laboratory**, and the **Detector Laboratory**, which support both instructional and research activities.

The faculty has also hosted major scientific events, including the **14th Iranian Conference on Fuzzy Systems (2014)** and the **12th International Seminar on Linear Algebra and Its Applications (2023)**.



The Faculty of Basic Sciences consists of two departments—**Mathematics** and **Physics**—and admits students at the **B.Sc., M.Sc., and Ph.D.** levels. Available academic programs include:

A) Bachelor's Programs:

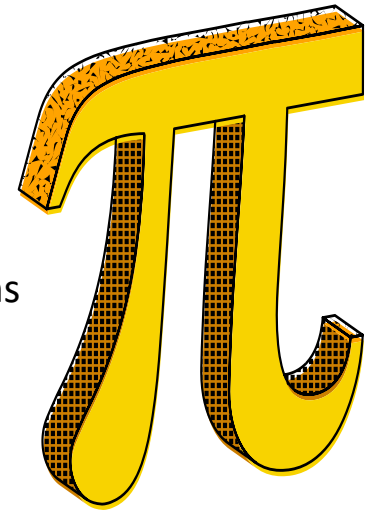
- Mathematics and Applications
- Physics

B) M.Sc. and Ph.D. Specializations in Mathematics:

- *Pure Mathematics:* Mathematical Analysis, Algebra
- *Applied Mathematics:* Numerical Analysis, Operations Research, Differential Equations

C) M.Sc. and Ph.D. Specializations in Physics:

- Theoretical Physics and Elementary Particles
- Solid-State Physics



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