Sahand University of Technology

Tabriz-IRAN

www.sut.ac.ir

List of the subjects for BSc, MSc and PhD courses at SUT

Faculty	BSc	MSc	PhD
Materials Engineering	Materials and Metallurgy Engineering	1.Characterization and Selection of Materials 2. Extraction of Metals 3.Corrosion and Protection of Materials 4. Welding 5. Casting 6. Foundry Engineering Nanomaterial's	1.Materials and Metallurgical Engineering
Petroleum and Gas Engineering	Petroleum Engineering	1. Exploration Engineering 2.Drilling Engineering 3. Reservoir Engineering 4.Production Engineering	1.Petroleum Engineering 2.Petroeum Engineering - Exploration
Mining Engineering	Mining Engineering	1. Mineral Processing 2. Rock Mechanic 3. Exploration 4.Extraction	1.Mining Engineering
Biomedical Engineering	Biomedical Engineering	1.Bioelectric 2.Biomechanics	1.Bioelectric 2.Biomechanics
Electronic Engineering	Electronic Engineering	1.Electronic Integrated Circuits 2. Micro and Nano Electronic Devices 3. Power 4. Electronic Engineering 5. Telecommunications 6. Control 7. Information Technology	1.Power 2. Telecommunications 3. Control 4. Electronic Engineering

SAHAND UNIVERSITY OF TECHNOLOGY

List of the subjects for BSc, MSc and PhD courses at SUT

Faculty	BSc	MSc	PhD
Civil Engineering	Civil Engineering	1.Structure Engineering 2.Earthquake Engineering 3.Geotechnical Engineering 4.Offshore Structural Engineering 5.Envirnment	1.Structure Engineering 2. Offshore Structural Engineering 3.Water and Hydraulics Structural Engineering
Chemical Engineering	Chemical Engineering	1.Termocynetic and Catalyst 2. Separation Process 3.Process Design 4. Environment 5. Food Industry 6. Transport Phenomena 7. Biotechnology 8.Pharmcy	1.Chemical Engineering
Polymer Engineering	Polymer Engineering	1.Process 2. Polymerization 3. Paint 4. Biopolymers 5. Nanotechnology 6. Chemical Engineering - polymer	1.Polymer Engineering 2. Process 3. Nanotechnology 4. polymer Industry
Basic Science	Mathematics and Applications	1.Applied Mathematics (Numerical Analysis) 2. Applied Mathematics (Optimization) 3. Applied Mathematics (Differential Equations and Dynamic System) 4. Pure Mathematics (Algebra) 5. Pure Mathematics (Analysis)	1.Applied Mathematics (Numerical Analysis) 2. Applied Mathematics (Optimization) 3. Applied Mathematics (Differential Equations and Dynamic System) 4. Pure Mathematics (Algebra) 5. Pure Mathematics (Analysis)
Basic Science	Physics	1. Atomic and Molecular physics 2. Plasma technology 3. Elementary Particle Physics and Field Theory 4. Condensed Matter Physics	1. Atomic and Molecular physics 2. Plasma technology 3. Elementary Particle Physics and Field Theory 4. Condensed Matter Physics
Mechanical Engineering	Mechanical Engineering	1.Applied Design (Solid Mechanics) 2.Applied Design (Dynamic) 3.Energy Conversion 4. Energy Systems 5.Power Train System	1.Applied Design (Solid Mechanics) 2.Applied Design(Dynamic) 3.Energy Conversion

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General Introduction

Sahand University of Technology (SUT) as the most important technical university in the northwestern region of the country contain about 5000 students and 10 faculties: Material Engineering, Chemical Engineering, Electrical Engineering, Mining Engineering, Civil Engineering, Polymer Engineering, Mechanical Engineering, Petroleum Engineering, Medical Engineering, Basic Sciences Engineering and Faculty of Electronic Education. More than 50% of the students of this university are post graduate students (MSc and PhD). Most of the subjects have been initiated according to the requirements of the industry in the region and special attention is paid to skill-based and creativity-based training.

Research institutes and research centers

SUT has two research institutes and variety of research centers: Polymer Materials, Oil and Gas Research Institute, and Environmental Research Center, Advanced Materials and Mineral Processing, Nanostructure Materials, Reactor and Catalyst, Tissue Engineering and Stem Cells, Marine Engineering, Earthquakes, Comprehensive Membrane, ICT, Energies Innovation, Biotechnology, Transmission Phenomena, Automobile, Biomechanics and Productivity and Sustainable Development.

SAHAND UNIVERSITY OF TECHNOLOGY

Ranking

US-News & World report
(in Education system in 2022)
Ranked #1481 world
Ranked #487 asia
Ranked #534 material science
Ranked #787 engineering
Ranked #939 chemistry

Shanghai Ranking 2022
(the Academic Ranking of World Universities)
151-200 top Universities in Metallurgy Engineering
301- 400 top Universities in Chemical Engineering
401-500 top Universities in Energy
Science and Engineering

URAP ranking 2022
(University Ranking by Academic Performance)
Ranked #1428 by University Ranking by Academic
Ranked # 29 among Iranian National Universities

Times Higher Education 2022
Ranked #800-601 wur
Ranked # 193 young
Ranked # 600 - 501 Engineering

ISC
(islamic world science citation center)
Ranked # 7 among Iranian Technical Universities

SAHAND UNIVERSITY OF TECHNOLOGY

Faculties

- Faculty of Petroleum and Gas Engineering
- Faculty of Chemical Engineering
- Faculty of Materials Engineering
- Faculty of Polymer Engineering
- Faculty of Biomedical Engineering
- Faculty of Electrical Engineering
- Faculty of Mining Engineering
- Faculty of Mechanical Engineering
- Faculty of Civil Engineering
- Faculty of Basic Science
- Faculty of E-learning and Center of open training

Comprehensive Growth and Innovation

The university's comprehensive growth and innovation center is responsible for the commercialization and transformation of research findings into technology by using dozens of knowledge-based companies and technology units. Among the most important commercialized products in this center are biotechnology products and equipment, types of water purification systems, anti-hail systems, heavy fuel desulfurization systems, and types of nano products. The University Innovation Center with core-based of student teams and with the aim of empowering graduates, helping to develop ideas and creativity, and strengthening students' teamwork, acts as a link between the faculties and the University Research Centers on the one hand, and the University Growth Center on the other

SAHAND UNIVERSITY OF TECHNOLOGY

National and International projects

In addition to the participation of Sahand University of Technology in important national projects of oil fields, solar power plants, manufacturing of power equipment, production of biotechnology products and water purification, in recent years, much attention has been paid to the development of international scientific relations in this university. Creating the necessary platforms for accepting foreign students, concluding joint agreements with international universities and carrying out joint projects are among these activities. The development of nanoprobes to track vaccine release is one of the joint projects being carried out by the researchers of this university and the scientists of the Chinese Academy of Sciences.

History and Rank

Alumni
291 PhD, 3914 MSc, 6226 BSc, 552 As
Employment rate: 100% PhD, 93% MSc, 87% BSc

Student community
477 PhD, 1618 MSc, 3259 BSc Total: 5354
32 international students

Academic members and staff
53/69/60/15 Full/Associate/Assistant Professor/Lecturers
169 Staff 366 Total

Innovation and incubation center
13 Start-up companies, 30 Spin-out companies
14 technology transfer companies

Infrastructures
3 campuses in 3 locations, 11 Academic Faculties, 2 Research nstitutes, 32 Research Centers, 1 Center of Excellence, More than 100 Educational and Research Laboratories, 3 Dormitories, 5 Student and 2 Staff Catering ,Public Restaurants, Central Library with Two satellite branches ,Indoor and Outdoor complex