



## Education

### ❑ Bachelor of Science (BSc.)

The purpose of the undergraduate BSc. program in Surveying engineering is to train experts who are capable of employing knowledge in different fields of Geomatics and Geospatial engineering. The syllabus of the program covering different subfields such as basic engineering skills (20%), fundamentals and applied surveying engineering (45%), Geodesy and Hydrography (13%), GIS and Remote-Sensing (12%), and Photogrammetry (12%). This course-based program consists of 140 credits and it designed to completed in 4 academic years (8 semesters).

### ❑ Master of Science (MSc.)

The MSc. Graduate program is intended for students who wish to study one or more fields of geomatics engineering at an advanced level with exposure to new technologies and different application domains. The program requires the completion of an approved thesis on original research as well as 30 credit graduate-level courses in a selected area of specialization. The specializations/tracks are Geodesy, Hydrography, GIS, Remote-Sensing, and Photogrammetry. The degree is intended to be completed in two years.

### ❑ Doctor of Philosophy (PhD.)

The Ph.D. program is a research degree for which a dissertation on original research is required. Besides, the candidates should complete 30 credit advanced-level courses in the selected specialization, during the 1st year of the program. Writing and publishing two journal papers is also required for graduation. The degree is intended to be completed in 4 years. The specializations are the same as in the MSc. Program.



## Contacts

Tel: +98 (0)21 88008841

Fax: +98 (0)21 88008837

Secretary Email: [pouyandeh@ut.ac.ir](mailto:pouyandeh@ut.ac.ir)

Address:

North Kargar Ave., Jalal Al. Ahmad Crossing, Tehran, Iran.

Postal code: 1439957131

School of Surveying and Geospatial Engineering,

College of Engineering, University of Tehran,

North Kargar Ave., Jalal Al. Ahmad Crossing, Tehran, Iran.



# SCHOOL OF SURVEYING AND GEOSPATIAL ENGINEERING

College of Engineering  
University of Tehran





## About

University of Tehran (UoT) is Iran's oldest and leading university, and one of the most prestigious universities in Middle East.

UoT has been Established at 1934 with six faculties including the faculty of engineering

The group of Surveying Engineering was added to the college of engineering at 1987.

Due to its successful progress, the group was promoted to the school of surveying and geospatial engineering at 2015.

Currently, with 22 staff members and more than 2000 students is one of the Iran's leading institutes in research and education in the field of surveying and geospatial engineering.

## Internatiol affairs

Internationalization of the University is currently a major drive at UoT. It is sought through the improvement of standards of the research and education at the high international levels, moving to the edge of knowledge, increasing the international cooperation and presence, increasing exchange programs and increasing the number of foreign students.

## Research Themes

### ■ Geodesy and Surveying

- Geokinematics and Geodynamics
- Geoid determination and modelling
- Gravity field monitoring
- Satellite Positioning and Navigation
- Inverse problems and Estimation theory
- Satellite Radar Interferometry and deformation monitoring
- Precise orbit determination

### ■ Remote Sensing

- Thermal remote sensing
- RS for environmental health
- SAR interferometry and GeoHazards
- Hyperspectral remote sensing and agricultural resource monitoring
- Land slide early warning/ forecasting
- 3D remote sensing and high-resolution digital elevation modeling

### ■ Engineering Surveying

- Underground and Mining Surveying
- Cadastral Surveying
- Micro-Geodesy and stability analysis
- Geodetic network design and optimization and quality control
- GPS triangulation networks

### ■ Geospatial Information Systems

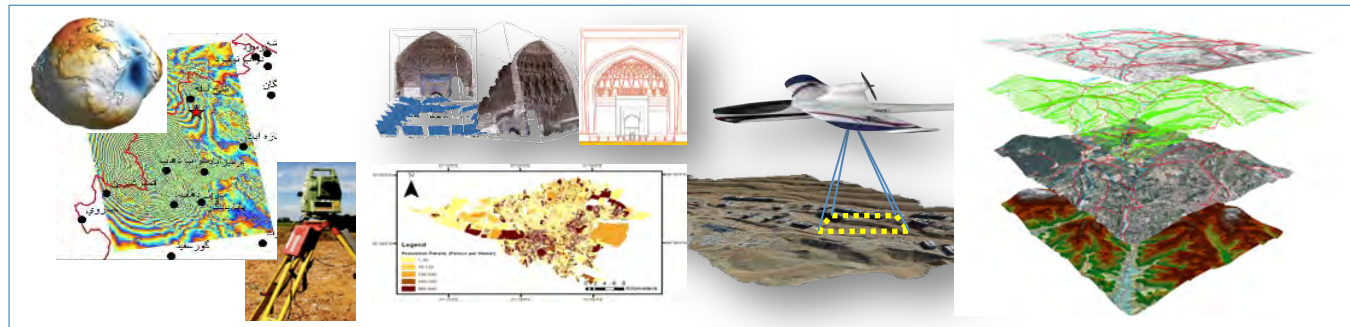
- Spatial decision support systems
- Location-based services (LBS)
- Indoor and outdoor navigation
- Spatial optimization and computational intelligence
- GIS for smart cities and environments
- Geosensors networks and sensor Web
- Land administration and spatial data infrastructures

### ■ Hydrography

- Sea level monitoring and modeling
- Sattelite radar altimetry
- Acoustic remote seinsing
- Bathymetry and hydrographic surveys
- Seaflor digital elevation modeling
- Hydrographic survey planning and navigation
- Hydrodynamic modeling

### ■ Photogrammetry

- Photogrammetric Computer Vision
- Point cloud generation/modeling
- Space/Aerial/UAV photogrammetry
- CRP, SLAM and mobile mapping
- Scene understanding and learning
- Applications in mapping, industry, heritage, space, medicine, civil, underwater and environment fields



## Conferences

- Geospatial Information Research (GI research)
- Sensors and Models in Photogrammetry and Remote Sensing (SMPR)



## Center of Excellence

Center of Excellence in Surveying Engineering and Disaster Management

- Research activities in the application of surveying and geospatial engineering in mitigation and management of natural disasters.
- Extension of national and international communication between relevant scientific disciplines.



## Journal

International Journal of Earth Observations and Geomatics Engineering



EOGE is an **open access** international journal covering a broad range of topics and approaches of Earth Observation and Geospatial Information.

