

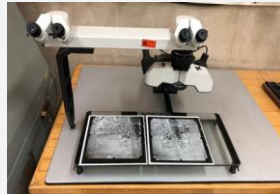


Faculty of Civil Engineering and Transportation
University of Isfahan

Introduction to: Department of Geomatics Engineering

Established in 1985, the Department of Geomatics Engineering includes:

- 1 Full Professor
- 1 Associate Professor
- 9 Assistant Professors
- 4 Department Deputies (Education, Research, Culture, and International Affairs)
- 5 Laboratories
- 1 Major in the BSc Programme
- 4 Majors in the MSc Programme
- 4 Majors in the PhD Programme
- 1390 Students and Graduates



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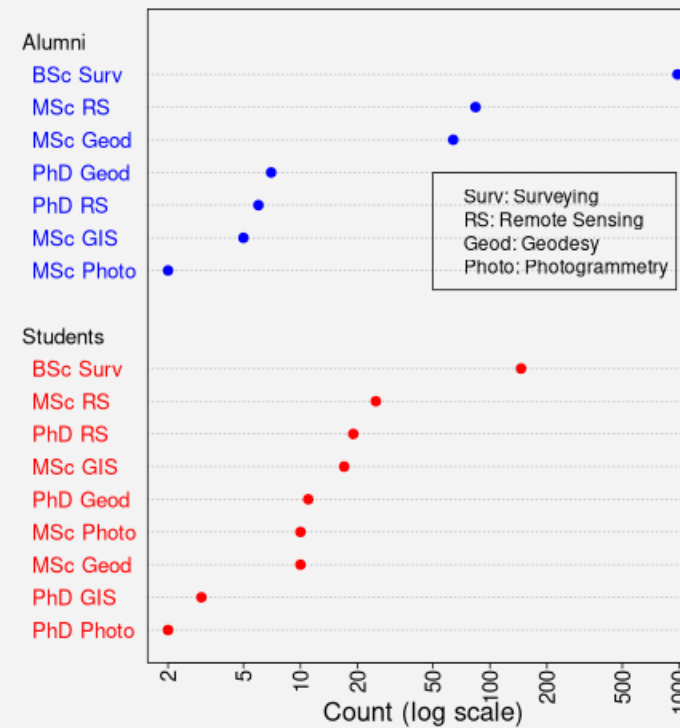


Faculty of Civil Engineering and Transportation,
University of Isfahan, Hezar-Jerib St., Isfahan, Iran.
Postal Code 8174673441



Summary of Student Statistics

The numbers of current and graduated students, broken down by academic level and major, are shown in the following chart (as of March 2025).



Research Areas

The research areas of the faculty members include:

- Development of positioning, reconnaissance, recognition, extraction, and modelling of phenomena based on imaging and LiDAR technologies
- Precision boosting and GNSS and INS application development and gravitational missions
- Precision improvement and information extraction from remotely sensed data to develop applications in Earth sciences, environmental hazards and mapping
- Development of spatial multi-criteria decision algorithms
- Development of satellite remote sensing applications in environmental studies, prediction and fighting natural hazards using solutions for spatial precision and resolution boosting
- Monitoring crustal deformation under natural hazards using numerical methods and classical and modern geodetic observations
- Remote sensing engineering for the urban map production and local environmental parameters estimations
- Land administration and cadastre
- Computational movement analysis
- Free software for GIS

Project Title	Funder/Client
An evaluation of land subsidence using radar interferometry in Rafsanjan desert	Asaco – Kerman Provincial Electricity Company
Monitoring of observation and computation of Isfahan Metro line #2 surface control points’ coordinates	Karaneh Sazan Engineering Comapny
Satellite positioning of the control points network of Qods site – Isteghlal square metro line	Isfahan Municipality Civil Company
Determination of the displacement of embankment dams using GPS observations	Isfahan Regional Water Company
Determination of Isfahan city local geoid	Isfahan Municipality ICT Organization
Determination of the planimetric and topographic base plan of Mobarake city	Morbarake Municipality
Fundamental GPS studies of Isfahan city	Isfahan Municipality ICT Organization
Development of total software solutions for electricity and gas distribution companies and electricity transmission company	Electric Power and Gas Distribution Companies
Tehran municipality comprehensive zoning plan enterprise and web GIS implementation	Tehran Municipality ICT
A landuse planning study and Isfahan province development document using strategic planning for a spatial database	Isfahan Provincial Government
The feasibility analysis of a spatial database creation for Foulad Mobarake complex	Foulad Mobarake company
Digitization and revision of Isfahan city zoning price boundaries	Isfahan Municipality ICT
GIS ready and import of spatial data into the geoportal of an SDI	Isfahan Municipality ICT
Giving technical solutions regarding the spatial database, SDI, and GISs of Isfahan municipality ICT organization	Isfahan Municipality ICT
University of Isfahan spaces management GIS	University of Isfahan
An estimation of the crop area of agricultural products	National Elite Foundation
Sensitivity analysis of SWAT rainfall runoff model to applied surveying scale from free remotely sensed images. Case study: upstream Zayanderoud dam	Iran Water Resource Management Organization
An estimation of influx of water to a dam reservoir using remotely sensed satellite data (case study: Zayanderud dam)	Iran National Science Foundation (INSF)
Compute MODIS aerosol AOD and regression to PM _{2/5}	Isfahan Cardiovascular Research Institute
Local model derivation for the transformation of MODIS satellite data derived aerosol AOD to PM ₁₀	Isfahan Cardiovascular Research Institute
Design and manufacturing of a navigation system based on computer vision	Ministry of Science, Research and Technology
Smart 3D optical laser scanner construction with the capability of automatic digitization of boundary lines	Ministry of Cultural Heritage, Tourism and Handicrafts
Evaluation of the amount of deformation of oil reservoir using close range photogrammetry	Oil Company of Tehran Province
3d model construction of historical places using photogrammetry using drone: case study: Qaleh Izadkhast	Ministry of Cultural Heritage, Tourism and Handicrafts
Geometry derivation of a positioning system using stars imaging	Ministry of Science, Research and Technology
High precision 1:500 drone mapping of Isfahan	Design Services Department of Isfahan Provincial Government
The study, quality control, and evaluation of Fouladshahr maps using drone photogrammetry	Fouladshahr Municipality