Introduction and history of the faculty:

The Faculty of Geodesy and Geomatics Engineering of the K. N. Toosi University of Technology was founded at 1954 as "SURVEYING SCHOOL " under coverage of National Cartographic Centre of Iran. At that time it played a significant role in relevant industries. The school was extended at 1974 to "Surveying College" to serve as an international training center in Middle East under the support of UN. It structurally changed to "Surveying Engineering Department" in 1982 within K. N. Toosi University of Technology. The department was later extended in 2002 to "Faculty of Geodesy and Geomatics Engineering" in K.N.Toosi University of Technology as the fist Geomatics Faculty in Iran.

Currently, the faculty offers undergraduate and postgraduate course of studies in four different departments including Geodesy, Photogrammetry, Remote Sensing and Geospatial Information Systems (GIS). The educational programs in the faculty aim the endless possibilities of Geomatics engineering offered to the students to help them achieve their future prospects. The status of the faculty of Geodesy and Geomatics Engineering as a leading institution in Geo-informatics is widely acknowledged and accepted. The faculty has been assigned the responsibility to update the national curriculum as well as the course materials for use by all institutions that offer Geomatics course. The Faculty offers B.Sc, M.Sc and PhD programs in Geomatics and its diverse fields of studies. The faculty staffs are committed to supporting student success, to fostering diversity and to conducting researches that make a difference.

The Department of Geodesy is the oldest department of the faculty which undertakes most of curriculum in B.Sc degree of Geomatics engineering. Research activities in this department is categorized into 4 different fields including Physical geodesy, Geodynamics, Geometric and gravimetric satellite geodesy, and GNSS remote sensing.

In the Department of Photogrammetry and Remote Sensing, we cover various applications such as urban management, natural hazard, ecological applications, geology, atmospheric and oceanography. The applications are aimed to cover the wide range of fields that use remote sensing and photogrammetry in a professional manner to extract information for solving variety of problems of environmental management. Research activities in this department is categorized into different fields including Aerial and Analytical Photogrammetry, Digital Photogrammetry, Close Range Photogrammetry, UAV and Lidar Photogrammetry, Optical, Radar and Thermal Remote Sensing, Pattern Recognition and Feature Extraction, Digital Image Processing, as well as specialized labs on applied fields like Ecology, Agriculture and Disaster Management.

The Department of GIS aims at advancing knowledge, research, education, and innovation in the field of geospatial analysis and technologies. Research activities in this department is categorized into different fields including Spatial Analysis, Modelling and Planning, Web, Mobile and Ubiquitous GIS, Cadastre and Land administration, Spatial Database and SDI, and 3D GIS.

Programs and Degrees:

- Undergraduate Programs
- MSc. in GIS, Geodesy, Photogrammetry and Remote Sensing
- PhD in GIS, Geodesy, Photogrammetry and Remote Sensing
- MSc. in Geoinformatics by Joint K.N.Toosi ITC Program (JKIP)
- Postdoc positions

Currently active Educational Labs:

- Classic Geodesy and Microgeodesy Lab.
- Global Positioning System Lab.
- Physical Geodesy and Gravimetry Lab.
- Digital Mapping and Virtual Reality Lab.
- GIS and LIS Lab.
- Advanced Programming and Database Management Systems Lab.
- Optical Remote Sensing Lab.
- Digital Image Processing Lab.
- Laser Scanning Lab.
- Radar Remote Sensing Lab.
- Preliminary Photogrammetry Lab.
- Aerial and Analytical Photogrammetry Lab.
- Digital Photogrammetry Lab.
- Close Range Photogrammetry Lab.

Currently active Research Labs:

- Spatial Decision Making and Smart City Lab.
- GeoFAHM (Ubiquitous GIS and Artificial Intelligence) Lab.
- Ubiquitous and Mobile GIS Lab.
- Spatial Information Computation Lab.
- Spatial Big Data Computing in the Context of the Internet of Things
- Remote Sensing for Ecology and Ecosystem Conservation (RSEEC) Lab.
- Aerial and Satellite Image Classification Lab.

The Remote sensing Research Center established at the faculty:

Remote sensing research center was established in 2009 at the Geomatics Faculty with the support of the Iranian Space Agency (ISA). This center consists of three research departments namely System design and image processing, IT and management of remotely sensed data and Applications of remote sensing. The departments cover various domains in airborne and spaceborne remote sensing.

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