

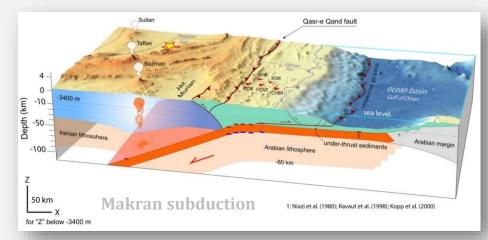
The Department of Earth Sciences

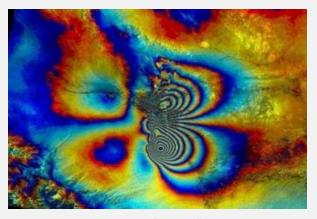
Departmental Overview

The Department of Earth Sciences at the IASBS is dedicated to research and education at the graduate level. We offer PhD and MSc programmes in various fields of geology and geophysics. We have active research in numerous multidisciplinary areas in geophysics, tectonics, space geodesy, sedimentology, petrology, climate change and hydrology. Current research areas include instrumental seismology to study the structure of the crust and lithosphere and the analysis of seismic waves and seismic sources, geophysical potential fields and applications, geohazards, active tectonics, structural evolution of collisional settings, applications of space geodesy in surface deformation, sedimentary basin analysis and reservoir geology, geochronology, magmatic processes in geodynamic settings, sustainable water resource management, climate change, groundwater hydrology and hydro-environmental analysis.

Areas of Study

- ✓ Deep Earth Structure
- ✓ Continental Deformation (Short to Long Term)
- √ Hydrogeophysics
- ✓ Hydroclimate and Environmental Monitoring
- ✓ Reservoir Geology
- ✓ Sedimentary Basin Analysis





Bam Earthquake



Mianeh Basin



Qizil-uzan River

Faculty Members

Geophysics & Geodesy



Majid Abbasi Assistant Prof Geodesy, Earth's Gravity Field & Deformation Monitoring https://iasbs.ac.ir/~madjid.abbasi



Farhad Sobouti Associate Prof. Geophysics, Seismology https://iasbs.ac.ir/~farhads



Masoud Saatsaz Assistant Prof Environmental Hydrology, Hydrogeology, Water History https://iasbs.ac.ir/~saatsaz

Sedimentology & Hydrogeology



Abdolreza Ghods Professor Seismology, Deep Earth Structure https://iasbs.ac.ir/~aghods



Najmeh Etemad-Saeed Assistant Prof Sedimentology, Sedimentation & Tectonics, PC-C Boundary https://iasbs.ac.ir/~n.etemad/



Mahtab Aflaki Assistant Prof Tectonics, Structural Geology, Active Tectonics https://iasbs.ac.ir/~aflaki



Hojat Haghshenas Lari Assistant Prof Geophysical Exploration, Seismology https://iasbs.ac.ir/~hojjat.lari



Aram Bayet Goll Assistant Prof Sedimentology, Ichnology, Sedimentology https://iasbs.ac.ir/~bayetgoll



Maryam Honarmand Assistant Prof Petrology, Geochemistry, Geochronology https://iasbs.ac.ir/~m.honarmand



Zohreh Masoumi Assistant Prof Geospatial Information Science (GIS), Disaster Management) https://iasbs.ac.ir/~z.masoumi



Medi Daraei Assistant Prof Sedimentology, Carbonate Sedimentology, Microfacies Analysis https://iasbs.ac.ir/~daraeimehdi



Iman Monsef Assistant Prof Petrology, Geochemistry https://iasbs.ac.ir/~iman.monsef



Seyed Khalil Motaghi Associate Prof Seismology, Deep Earth Structure https://iasbs.ac.ir/~kmotaghi



Mostafa Naderi Assistant Prof Hydrogeology, Climate Change https://iasbs.ac.ir/~m.naderi



Mahnaz Rezaeian Assistant Prof Geo-thermochronology, General Geology https://iasbs.ac.ir/~m.rezaeian



Zahra Mousavi Assistant Prof Geodesy, Surface Deformation https://iasbs.ac.ir/~z.mousavi



Abolfazl Rezaei Assistant Prof Hydrogeology, Karst Aquifers, Flow and Solute Transport Modelling https://iasbs.ac.ir/~arezaei



Esmaeil Shabanian Associate Prof Tectonics, Crustal Deformation, Active Tectonics https://iasbs.ac.ir/~shabanian



Research Facilities

- ✓ The Department has several instrumental, analytical, and computational facilities at the service of its teaching and research programs. Our main laboratories include:
 - Geophysical instrument pool
 - Sample preparation
 - Hydrochemistry
 - Sedimentology
 - Microscopy
 - Image processing

- ✓ Further analytical facilities housed in other departments of the Institute are also available to our faculty and students.
- ✓ We also have a range of general facilities to support student activities that include personal office space, computer lab, map collections and various databases, and meeting rooms.











Vehicles and other facilities for field excursions

Graduate Studies

- ✓ The Department of Earth Sciences offers the following course- and research-oriented graduate degree programmes:
 - MSc in Geophysics, Tectonics, and Sedimentology/Hydrogeology
 - PhD in Geophysics
- ✓ The MSc degrees are two-year programmes with 10 to 12 courses in the first year and a research thesis project in the second year. Individuals with a bachelor's degree in physics, geology, mathematics, or engineering are eligible to apply.
- ✓ The PhD degree is a four-year programme with at least 6 courses in the first year, and a dissertation that is expected to result in papers publishable in peer-reviewed international journals.
- Individuals with a master's degree in physics, geology and geophysics, mathematics, or engineering are eligible to apply.



