



## Engineering Department

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The Department of Civil Engineering at Sharif University of Technology was established in 1972. For the first ten years, both the graduate and undergraduate programs emphasized on structural engineering. Since 1982, the research programs as well as the graduate and undergraduate courses have been extended to other fields of civil engineering. At the present time, the Department of Civil Engineering has 40 full

time faculty members, more than 600 graduate and 500 undergraduate students. It has eight areas of concentration: Structural Engineering, Water Resources and Environmental Engineering, Geotechnical Engineering, Highway and Pavement Design, Transportation, Earthquake Engineering, Hydraulic Structures and Construction Management.

### Undergraduate Course Structure

1st year	2nd year	3rd year	4th year
<ul style="list-style-type: none"> <li>• Math. (I), (II)</li> <li>• Physics (I), (II)</li> <li>• Physics Lab</li> <li>• General Chemistry</li> <li>• General Chemistry Lab</li> <li>• Statics</li> <li>• Technical Drawing</li> <li>• Workshop</li> </ul>	<ul style="list-style-type: none"> <li>• Statistics and Probability in Civil Engineering</li> <li>• Dynamics</li> <li>• Mechanics of Materials (I)</li> <li>• Diff. Equations</li> <li>• Computer Programming</li> <li>• Engineering Geology</li> <li>• Engineering Hydrology</li> <li>• Fluid Mechanics</li> <li>• Structural Analysis (I)</li> <li>• Construction Materials &amp; Concrete Technology</li> <li>• Mechanics of Materials Lab</li> <li>• Architecture Design</li> <li>• Numerical Analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Hydraulics</li> <li>• Hydraulics Lab</li> <li>• Steel Design (I), (II)</li> <li>• Design of Concrete Structures (I), (II)</li> <li>• Structural Analysis (II)</li> <li>• Loading Principles</li> <li>• Soil Mechanics</li> <li>• Soil Mechanics Lab</li> <li>• Environmental Engineering</li> <li>• Traffic and Highway Engineering</li> <li>• Foundation Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Steel Structures Project</li> <li>• Reinforced Concrete Project</li> <li>• Road Construction</li> <li>• Construction Equipment and Methods</li> <li>• Water Supply and Sewerage</li> <li>• Internship</li> <li>• Highway Design Project</li> <li>• Project and Construction Management</li> </ul>

## Graduate Program

In accordance with the requirements of the Graduate School at SUT, M.Sc. and Ph.D. degrees in Civil Engineering are offered in the following areas:

- Earthquake Engineering
- Environmental and Sanitation Engineering
- Construction Engineering and Management (M.Sc. only)
- Geotechnical Engineering
- Highway Engineering
- Hydraulics and Water Resources Engineering
- Structural Engineering
- Transportation Engineering and planning

## Graduate Research Fields and Facilities

The Civil Engineering Department laboratories include:

- Solids (Strength of Materials) Lab
- Concrete Lab
- Hydraulics Lab
- Shaking Table
- Strong Floor Lab
- Pavement Lab
- Transportation and Computer-Aided Design
- Soil Mechanics Lab

- Surveying Workshop
- Universal Device

## Research Centers

- 1- Transportation Engineering Research Center
- 2- Earthquake Engineering Research Center
- 3- Parallel Processing Center

## Career Opportunities Civil Engineering

Upon completion of their undergraduate programs, Civil engineers will be able to participate in design, calculation, construction and management of projects such as buildings, bridges, tunnels, rigs, platforms, sea and coastal structures, ground and air tanks. Planning and constructing highways, programming transportation and traffic, building urban water supply networks for purification and provision of drinking water, collecting surface water and sewage, enhancing environmental health, constructing seaports and airports, planning dams and networks of transporting and storing water are among other possibilities for the Civil engineers.

