

## **FREQUENTLY ASKED QUESTIONS BY PROSPECTIVE STUDENTS**

### **Can you give general information about civil engineering?**

The most basic needs of living things are water, accommodation and transportation.

- Civil Engineering, perhaps the oldest branch of engineering in the world, is the branch of engineering that has been constantly developing and open to developments since the day humanity existed and will continue to exist as long as human beings live; It undertakes the design, construction and maintenance of infrastructures that will meet the basic needs of people efficiently, economically and quickly.
- Civil engineer is a branch of engineering that undertakes the design and construction of the transmission line for the water to reach the houses and workplaces, starting with the design of wells and dams that will meet the water needs of people. It is also a branch of engineering that undertakes the design and construction of projects for the removal of wastewater in homes and workplaces from underground with the help of pipes.
- It is a branch of engineering that undertakes and supervises the dimensioning and construction process of structures such as houses, hotels, workplaces, factories, power plants that will provide shelter and other needs of living beings under all kinds of loads (earthquake, wind, tsunami, wave loads, etc.) in order to remain in balance.

One of the most basic needs of people is transportation. In addition, the transportation of produced goods and food to the demanded regions is very important for the country's economy. Transportation takes place in the form of home-work, work-shopping, home-hospital, home-school, etc. within the city. Civil engineer undertakes the geometric and superstructure design, construction and maintenance of highways in the city. In addition, it produces solutions with intersection arrangements, traffic signalization and intelligent transportation systems that will shorten the time spent in traffic.

### **Can you give information about Istanbul Gelisim University Civil Engineering Department?**

Istanbul Gelisim University Department of Civil Engineering was established in 2011 and has produced 620 graduates to date. Our graduates work in the public and private sectors and in their own workplaces. Our department has structural, geotechnical and hydraulic laboratories. Currently, there are 5 professors, 2 associate professors, 11 assistant professors and 2 research assistants in our department. There are two programs in our department. The education language of the English Civil Engineering program is 100% English, while the education language of the Turkish program is 100% Turkish. You can access the curricula of these programs from the Curriculum tab on the Home Page of our Department ([https://mmf.gelisim.edu.tr/en/akademik-department-civil-engineering-\(english\)-curriculum](https://mmf.gelisim.edu.tr/en/akademik-department-civil-engineering-(english)-curriculum))

Our curriculum includes:

- 25% of science courses (math, physics, chemistry, etc.)
- 15% of personal development courses / social sciences courses. The vocational weight of our curriculum consists of courses covering building materials, structural mechanics, soil mechanics, highway engineering, railway engineering, water structures, respectively. General grouping of the courses of our curriculum,
- 35% of basic engineering courses / vocational courses
- 25% of elective vocational courses.

25% of our curriculum consists of elective courses and is designed to allow students to focus on different sectors/qualifications in 2nd, 3rd and 4th grades in line with their own tendencies.

### **What are the job opportunities for graduates?**

Our graduates are trained to work in any country in the world. The field of Civil Engineering is quite wide. In general, there is an incomplete understanding that civil engineers are only involved in housing construction. However, civil engineers are also involved in infrastructure projects such as water structures, highways, railways, airports, pipelines, etc. In short, civil engineers are involved in the design, construction and maintenance of all kinds of infrastructure projects.

Due to the fact that our country is located in the earthquake zone, the reinforcement of old buildings or their reconstruction through urban transformation is among the priorities of governments and municipalities. In this context, new buildings will replace the existing building stocks today and in the future. Therefore, there will be job opportunities in construction projects in every corner of our country, especially in Istanbul. In addition, renovation or reinforcement of bridges, reinforcement or reconstruction of existing highways and railways to withstand earthquakes will be one of the important business lines in the coming years.

Turkish contractors are undertaking the construction of a large number of projects in both developing and developed countries with the experience gained in large projects both in our country and abroad. Our graduates have the opportunity to work abroad in projects undertaken by Turkish Contractors. The number of housing and infrastructure projects is increasing day by day, especially in developing countries. Most of the infrastructures of developed countries have completed their economic life; therefore, since they will need to be renewed, our graduates have the opportunity to work in developed countries.

Our graduates can work as project engineers in project offices and as field engineers, site supervisors and project managers in contractor companies undertaking construction works. They can also work as office and field engineers in the central and provincial directorates of Municipalities, Ministries, General Directorates. Our graduates can start their business life by establishing their own office or company from the day they graduate.

Today, civil engineers are in high demand and almost all of our graduates work in the sector.

### **Is civil engineering a suitable profession for women?**

Civil engineers work as field engineers in offices and construction sites. Especially in the field, it is a fact that the education level of the workers is low. For this reason, it should not be forgotten that it is necessary to deal with the workers in order to get them to manufacture in accordance with the project. Women who can communicate with people can work in the field. However, a female civil engineer can also work in the office, such as project management at construction sites. She can also work as a senior manager in the field as a construction site supervisor or project manager. In fact, as in all engineering, civil engineering is mainly a knowledge-intensive work and physical/physical work is in the background. Therefore, the idea that civil engineering is not a female profession is not correct.

### **What are the opportunities for students/graduates to study abroad?**

Students have the right to study at universities other than their home university for up to two semesters through the student exchange program. Courses taken in this way are treated as if they were taken at their home university. With student exchange programs such as Erasmus+, Mevlâna and Farabi, students have the opportunity to receive partial education from other universities within the country and in many countries of the world.

Our department has ABET certification. In this context, the education provided by our department is recognized by developed countries. The education our students receive is in accordance with ABET criteria and will make it easier for them to work abroad after graduation and to do their master's and doctorate studies abroad.