

FAQ

1. What is Computer Engineering?

Computer engineering is an engineering field that focuses on the structure, design, development, and use of computer systems.

2. Who Can Become a Computer Engineer?

Those who want to become a computer engineer should have the ability to reason with numbers and symbols, the skill to break down tasks and determine processing steps. Logical reasoning, design skills, attention to detail, patience, a commitment to continuous learning, and a research-oriented personality are also important traits.

3. What is the Duration and Content of Computer Engineering Education?

The education period is four years. In the first year, courses include mathematics, physics, chemistry, and an introduction to computer engineering and programming. In the following years, students focus on hardware and software specializations. Courses may include Programming Languages, Data Structures and Algorithms, Probability and Statistics, Digital Logic Systems, Fundamentals of Electrical Circuits, Introduction to Electronics, Computer Architecture and Logic Design, Microprocessors, and Operating Systems. Our department also offers a wide range of elective technical courses, from Cyber Security and Machine Learning to Artificial Intelligence. Additionally, elective groups in fields like Computer Games, Web Programming, and Embedded Systems provide opportunities for specialization.

4. What Are the Employment Opportunities After Graduation?

Computer engineers have been in high demand for a long time, and this trend continues. It is difficult to find another engineering field outside of IT that offers such a promising future. Computer engineers are needed in almost every sector, working in areas from database application design and development to network communication and computer control systems. Additionally, the continuously evolving IT sector and artificial intelligence applications provide computer engineering graduates with diverse and unlimited job opportunities centered around computing applications.

5. Where Do Your Graduates Work?

Many of our graduates manage to secure jobs even before graduation. Istanbul Gelisim University Computer Engineering graduates work in leading companies across various sectors in Turkey, including THY (Turkish Airlines), Ziraat Bank, and ASELSAN. Many others continue their careers in reputable companies, particularly in the banking and IT sectors.

6. Do I Need Prior Knowledge of Computer Programming to Choose This Department?

No, prior knowledge of computer programming is not required. However, if you already have programming knowledge, it can be beneficial for the programming courses you will take in your first year.

7. What Are the Differences Between Computer Engineering and Software Engineering?

Although there are many similarities between these two fields, the main differences can be summarized as follows: Computer engineering focuses on the design and development of software that controls hardware, while software engineering primarily deals with the design, development, installation, and maintenance of application software. Computer engineering covers hardware as well, whereas software engineering may not include hardware.