ECTS

Program Information Package

Program: Computer Engineering | Total ECTS: 240 | Date of Issue: 20.11.2026

Program Information

Program Name	Computer Engineering
Education Level	Bachelor
Language of Instruction	English
Program Duration	8 Semesters
Maximum Duration	14 Semesters
Head of Program	Prof. Dr. Hilal KAZAN
Internship	Required
Total ECTS	240

Admission and Registration Requirements

Enrollment in the program is possible through central placement conducted by ÖSYM (Turkish Higher Education Institutions Examination Center), the Vertical Transfer Examination (DGS), domestic and international inter-institutional transfer based on success criteria, intra-institutional transfer based on success criteria, and inter-institutional and intra-institutional transfer based on central placement scores.

Graduation Requirements

According to Article 40 of our University's Associate Degree and Undergraduate Education and Training Regulations, students who successfully complete all courses included in the curriculum of their undergraduate program at the end of any semester, have a general grade point average (GGPA) of at least 2.00, have completed a total of at least 240 ECTS credits, and have fulfilled any internship, graduation project, and similar obligations, are entitled to receive an undergraduate degree.

Occupational Profiles of Graduates

Computer Engineering graduates can find career opportunities in companies operating in fields such as software, cybersecurity, defense industry, finance/banking, communication, and healthcare, as well as in related government institutions. Additionally, there are academic career opportunities for graduates who wish to work in research, development, and education activities in these and similar fields.

About the Program

The program language is English. The normal duration of the program is 4 years, excluding the foreign language preparatory class. Students must complete the program within a maximum of seven years, starting from the semester in which the courses related to the program are offered, regardless of whether they register for each semester, excluding the foreign language preparatory class. Upon completion of the program, a "Bachelor's Degree in Computer Engineering" is awarded. All academic staff have completed their postgraduate studies at the world's most renowned universities in computer science and related fields. Research groups conduct research in algorithm design and analysis, computational biology and bioinformatics, perceptual networks, cloud computing, cryptography, coding theory, and computer simulations. Faculty members have many research projects funded by European Union programs or supported by scientific organizations such as TÜBİTAK. Research outputs are published in the most renowned international journals and conferences in their fields.

Exams, Assessment and Evaluation

Exams at our university consist of midterm exams, final exams, make-up exams, exemption exams, supplementary exams, and single-course exams. Exams are conducted according to the schedule prepared and announced by our faculty. Student ID cards must be presented to enter the exams. A midterm exam is an exam given during the semester in which a course included in our faculty's undergraduate program curriculum is taught. Each course has at least one midterm exam per semester, or assignments, projects, and similar work done during the course may be used in place of a midterm exam at the discretion of the course instructor. The final exam is the exam held at the end of the semester in which the course is taught, within the dates specified in the academic calendar. Course grades are determined by evaluating the elements mentioned above and are given using letter grades.

Program Educational Objectives

The Department of Computer Engineering admitted its first students in the 2012-2013 academic year. Since its establishment, the mission of the Department of Computer Engineering has been to provide the necessary educational infrastructure to create human resources capable of meeting current and future needs in the field of computer science. This mission includes training computer engineers for leadership positions in both industry and academia. In this context, we aim to equip our students with analytical reasoning, engineering design skills, and the abilities required throughout all stages of a software development project, through a goal-oriented, contemporary, and dynamic education system.

Transition to Higher Degree Programs

Graduates of the Computer Engineering Department, after earning their undergraduate degree, can continue their postgraduate education if they meet the general grade point average, foreign language proficiency level, ALES exam, and other examination requirements set by each institute for application to relevant programs.

Recognition of Prior Learning

Depending on the degree obtained, successful completion of theoretical or practical courses may be considered as prior learning by the department's equivalency committee. Similarly, for students continuing their education, transferring courses taken at another institution in Turkey or abroad is possible under certain conditions. After the department's equivalency committee's work, such requests are decided upon by the department board.

Program Outcomes

PÇ-1 Knowledge of mathematics, science, basic engineering, computing and related discipline-specific topics; ability to apply this knowledge in solving complex engineering problems.

PÇ-2 Ability to identify, formulate and analyze complex engineering problems using fundamental knowledge of science, mathematics and engineering, and to consider the United Nations' Sustainable Development Goals relevant to the problem at hand.

PÇ-3 Ability to design creative solutions to complex engineering problems; ability to design complex systems, processes, devices or products to meet current and future requirements under realistic constraints and conditions.

PÇ-4 Ability to select and use appropriate techniques, resources, and modern engineering and information technology tools, including estimation and modeling, for the analysis and solution of complex engineering problems, as well as recognizing their limitations.

PÇ-5 Ability to use research methods, including literature search, design and execution of experiments, data collection, analysis and interpretation of results, in order to investigate complex engineering problems or research topics specific to computer engineering.

PÇ-6 Knowledge of the impacts of engineering practices on society, health and safety, economy, sustainability and environment in the context of the United Nations' Sustainable Development Goals; awareness of the legal implications of engineering solutions.

PÇ-7 Knowledge about ethical responsibility, acting in accordance with the principles of engineering profession; awareness of acting impartially, without discrimination in any matter and being inclusive of diversity.

PÇ-8 Ability to work effectively as an individual and as a team member or leader in disciplinary and multidisciplinary teams (face-to-face, distance or both).

PÇ-9 Ability to communicate effectively, verbally and in writing, on technical issues, taking into account the various differences (education, language, profession, etc.) of the target audience.

PÇ-10 Knowledge of business life practices such as project management and economic feasibility analysis; awareness of entrepreneurship and innovation.

PÇ-11 Ability to learn independently and continuously, to adapt to new and emerging technologies and to think inquisitively about technological changes.

NQF Matrix

Subject Area Level 6 (Bachelor's Degree)	No	1	2	3	4	5	6	7	8	9	10	11
Bilgi	1	**x**	–	–	**x**	–	**x**	**x**	–	–	–	–
Beceriler	1	–	–	–	–	–	**x**	**x**	**x**	–	–	–
	2	–	**x**	–	–	**x**	**x**	–	–	–	–	–
	3	–	**x**	**x**	–	–	**x**	–	–	–	–	–
Bağımsız Çalışabilme ve Sorumluluk Alabilme Yetkinliği	1	–	–	–	–	–	–	–	**x**	–	–	–
Öğrenme Yetkinliği	1	–	–	–	–	**x**	–	–	–	–	–	–
	2	–	–	–	–	–	**x**	–	–	–	–	–
	5	–	–	–	–	–	**x**	–	–	–	–	–
İletişim ve Sosyal Yetkinlik	3	–	–	–	**x**	–	–	–	–	–	–	–

Course Plan

2025 Bilgisayar Mühendisliği

Semester 1

Code	Course Name	L	P	Lab	Credit	ECTS	Language
TURK 101	Turkish Language I	2	0	0	2	2	Turkish
ENEN 1001	English for Engineers I	3	0	0	3	3	English
MATH 1001	Calculus I	4	0	0	4	5	English
PHYS 1001	Physics I	3	0	0	3	4	English
PHYL 1001	Physics I Laboratory	0	2	0	1	2	English
BIO 1001	Biology	3	0	0	3	5	English
CS 1001	Introduction to Programming I	3	2	0	4	6	English
CS 1011	Introduction to Computer Engineering and Ethics	2	0	0	2	3	English

Semester 2

Code	Course Name	L	P	Lab	Credit	ECTS	Language
TURK 102	Turkish Language II	2	0	0	2	2	Turkish
ENEN 1002	English for Engineers II	3	0	0	3	3	English
MATH 1002	Calculus II	4	0	0	4	5	English
MATH 1004	Linear Algebra	4	0	0	4	5	English
PHYS 1002	Physics II	3	0	0	3	4	English
PHYL 1002	Physics II Laboratory	0	2	0	1	2	English
CS 1002	Introduction to Programming II	3	2	0	4	6	English
CS 1006	Discrete Computational Structures I	2	0	0	2	3	English

Semester 3

Code	Course Name	L	P	Lab	Credit	ECTS	Language

ENWH 1001	Worker Health and Occupational Safety I	2	0	0	2	2	English
MATH 2003	Differential Equations	4	0	0	4	5	English
CS 2001	Object Oriented Programming	3	2	0	4	5	English
CS 2003	Introduction to Database Systems	3	0	0	3	5	English
CS 2007	Discrete Computational Structures II	3	0	0	3	4	English
EE 2011	Digital Systems	3	0	0	3	4	English
EE 2013	Digital Systems Laboratory	3	0	0	1	2	English
NAE 1000	University Elective Courses	0	0	0	0	3	-

Semester 4

Code	Course Name	L	P	Lab	Credit	ECTS	Language
ENWH 1002	Worker's Health and Occupational Safety II	2	0	0	2	2	English
MATH 2005	Probability and Statistics	3	0	0	3	5	English
CHM 1001	General Chemistry	3	0	0	3	5	English
CS 2002	Data Structures	3	2	0	4	5	English
CS 2004	Computer Organization and Architecture	3	0	0	3	5	English
CS 2006	Database Management Systems and Applications	3	0	0	3	5	English
NAE 1000	University Elective Courses	0	0	0	0	3	-

Semester 5

Code	Course Name	L	P	Lab	Credit	ECTS	Language
HIST 101a	Atatürk's Principles and Revolution History I	2	0	0	2	2	English
ENEC 2000	Engineering Economics	3	0	0	3	3	English
MATH 2006	Numerical Analysis for Engineers	4	0	0	4	5	English
CS 3001	Algorithms	3	0	0	3	5	English

Code	Course Name	L	P	Lab	Credit	ECTS	Language
CS 3003	Software Engineering	3	0	0	3	5	English
CS 3005	Systems Programming	3	0	0	3	5	English
CS 3007	Principles of Programming Languages	3	0	0	3	5	English

Semester 6

Code	Course Name	L	P	Lab	Credit	ECTS	Language
HIST 102	Atatürk's Principles and Revolution History II	2	0	0	2	2	Turkish
CS 3000	Internship I	0	2	0	1	5	English
CS 3002	Formal Languages and Automata Theory	3	0	0	3	5	English
CS 3004	Operating Systems	3	0	0	3	5	English
CS 3006	Introduction to Artificial Intelligence	3	0	0	3	5	English
EE 3008	Microcontrollers	3	2	0	4	5	English
NAE 1000	University Elective Courses	0	0	0	0	3	-

Semester 7

Code	Course Name	L	P	Lab	Credit	ECTS	Language
AECS 1000	Area Elective	0	0	0	0	5	-
AECS 1000	Area Elective	0	0	0	0	5	-
AECS 1000	Area Elective	0	0	0	0	5	-
AECS 1000	Area Elective	0	0	0	0	5	-
AECS 1000	Area Elective	0	0	0	0	5	-
AECS 1000	Area Elective	0	0	0	0	5	-

Semester 8

Code	Course Name	L	P	Lab	Credit	ECTS	Language

AECS 1000	Area Elective	0	0	0	0	5	-
AECS 1000	Area Elective	0	0	0	0	5	-
AECS 1000	Area Elective	0	0	0	0	5	-
AECS 1000	Area Elective	0	0	0	0	5	-
AECS 1000	Area Elective	0	0	0	0	5	-
AECS 1000	Area Elective	0	0	0	0	5	-

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