ECTS

Program Information Package

Program: Electrical Engineering | Total ECTS: 240 | Date of Issue: 20.09.2026

Program Information

Program Name	Electrical Engineering
Education Level	Bachelor
Language of Instruction	English
Program Duration	8 Semesters
Maximum Duration	14 Semesters
Head of Program	Dr. Öğr. Üyesi Seda DEMİREL TOPEL
Internship	Required
Total ECTS	240

Admission and Registration Requirements

Antalya Bilim Üniversitesi Elektrik-Elektronik Mühendisliği lisans programına öğrenciler, ÖSYM tarafından yapılan YKS merkezi yerleştirme sistemiyle veya yatay geçiş yoluyla kabul edilmektedir. Programa kabul edilen öğrencilerin kayıt sırasında lise diploması veya geçici mezuniyet belgesi, kimlik veya pasaport fotokopisi ve gerekli diğer kayıt belgelerini teslim etmeleri gerekmektedir. Bölümün eğitim dili İngilizce olduğundan, öğrencilerin İngilizce yeterliliklerini belgelemeleri veya üniversitenin yaptığı İngilizce yeterlilik sınavına girmeleri gerekir; yeterli puanı alamayan öğrenciler İngilizce hazırlık programına devam ederler. Elektrik-Elektronik Mühendisliği lisans programının normal eğitim süresi dört yıl olup öğrencilerin programı belirlenen süre içerisinde tamamlamaları beklenmektedir. Ayrıca başka bir üniversiteden gelen öğrenciler daha önce aldıkları dersler için bölüm tarafından değerlendirilen ders saydırma (intibak) işlemlerinden yararlanabilmektedir.

Admission and Registration Requirements

Students are admitted to the Electrical and Electronics Engineering undergraduate program at Antalya Bilim University through the national university entrance exam (YKS) conducted by ÖSYM or through horizontal transfer from other universities. Students who are admitted to the program are required to submit certain documents during registration, such as a high school diploma or temporary graduation certificate, a copy of their identity card or passport, and other required registration documents. Since the language of instruction in the program is English, students must demonstrate their English proficiency or take the university's English proficiency exam; those who do not achieve the required score must attend the English preparatory program. The normal duration of the Electrical and Electronics Engineering undergraduate program is four years, and students are expected to complete the program within the specified period. In addition, students transferring from other universities may apply for course equivalency (credit transfer) for the courses they have previously completed, which are evaluated by the department.

Graduation Requirements

Elektrik-Elektronik Mühendisliği bölümünden mezun olabilmek için öğrencilerin programda yer alan tüm dersleri başarıyla tamamlamaları ve toplamda 240 AKTS krediyi doldurmaları gerekmektedir. Ayrıca öğrencilerin genel not ortalamasının en az 2.00/4.00 olması şarttır. Bunun yanında bölüm kapsamında yer alan Staj 1 ve müfredatında tanımlı Alan içi ve Alan Dışı seçmeli derslerin tamamlanması gerekmektedir. Tüm bu koşullar yerine getirildiğinde, bölüm ve fakülte tarafından yapılan akademik değerlendirme sonucunda öğrenci mezuniyet hakkı kazanır.

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Graduation Requirements

In order to graduate from the Electrical and Electronics Engineering program, students must successfully complete all courses included in the program curriculum and accumulate a total of 240 ECTS credits. In addition, students are required to achieve a minimum cumulative grade point average (CGPA) of 2.00 out of 4.00. Students must also complete the Internship I requirement and successfully take the departmental and non-departmental elective courses defined in the curriculum. Once all these requirements are fulfilled, the student becomes eligible for graduation upon academic approval by the department and the faculty.

Occupational Profiles of Graduates

Elektrik-elektronik mühendisleri enerji, elektronik, haberleşme, otomasyon, savunma sanayi ve yazılım gibi birçok farklı sektörde çalışma imkânı bulabilmektedir. Bu mühendisler elektrik üretim ve dağıtım şirketlerinde, elektronik cihaz tasarımı ve üretimi yapan firmalarda, telekomünikasyon şirketlerinde, endüstriyel otomasyon ve robotik sistemler alanında faaliyet gösteren işletmelerde, savunma ve havacılık sanayisinde, ayrıca yazılım ve teknoloji şirketlerinde görev alabilmektedir. Bunun yanı sıra araştırma merkezleri ve üniversitelerde akademik çalışmalar yapma imkânına da sahiptirler.

Occupational Profiles of Graduates

Electrical and electronics engineers can find employment opportunities in many different sectors such as energy, electronics, telecommunications, automation, defense industry, and software. They can work in companies involved in electricity generation and distribution, firms that design and manufacture electronic devices, telecommunications companies, enterprises operating in industrial automation and robotic systems, the defense and aerospace industry, as well as software and technology companies. In addition, they also have the opportunity to conduct academic studies at research centers and universities.

About the Program

Elektrik ve Elektronik Mühendisliği Bölümü 2012-2013 eğitim-öğretim yılında ilk öğrencilerini almış olup lisans ve lisansüstü eğitimlerine bu tarihten beri devam edilmektedir. Kuruluş tarihinden bu yana gerçekleştirilmekte olan eğitim-öğretim aktivitelerinde İngilizce eğitim dili kullanmakta olup örgün eğitim uygulamaktadır. Bölümün amacı, endüstri ve toplumun ihtiyaçlarını karşılayan teorik ve uygulamalı alanlarda yaratıcı mühendisler yetiştirmektir. Bu amaçla, programda devre, elektronik, elektromanyetik alan ve dalga teorisi, optik ve fotonik, sinyal işleme, kontrol sistemleri, güç ve haberleşme sistemlerine ilişkin dersler verilmektedir.

About the Program

The Department of Electrical and Electronics Engineering admitted its first students in the 2012–2013 academic year and has continued its undergraduate and graduate education since that date. Since its establishment, English has been used as the language of instruction in the educational activities carried out, and the program is delivered through formal (on-campus) education.The aim of the department is to educate creative engineers in both theoretical and applied fields who can meet the needs of industry and society. For this purpose, the program offers courses related to circuits, electronics, electromagnetic field and wave theory, optics and photonics, signal processing, control systems, power systems, and communication systems.

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Exams, Assessment and Evaluation

In the Electrical and Electronics Engineering undergraduate program at Antalya Bilim University, student performance is assessed and evaluated through various methods such as midterm exams, quizzes, assignments, projects, laboratory work, and final exams. The evaluation methods used for each course and their contribution to the final grade are determined by the course instructor at the beginning of the semester and announced to the students. Students’ academic performance in each course is determined based on the overall results of these assessments, and grading is conducted according to the university’s grading system. In addition, students’ academic achievement is evaluated through the cumulative grade point average calculated at the end of each semester.

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Program Educational Objectives

Mezunlarımız, ulusal veya uluslararası kamu ve özel sektör kuruluşlarında; tasarım, üretim ve operasyon süreçlerinde teknik uzman veya yönetici olarak görev alırlar.Mezunlarımız, lisansüstü eğitimlerine devam ederek akademik kariyer yapabilir veya ileri teknoloji odaklı araştırma merkezlerinde bilimsel projeler yürütürler.Mezunlarımız, mesleki birikimlerini katma değerli iş fikirlerine dönüştürerek kendi şirketlerini kurar veya teknoloji odaklı girişimlerde liderlik rolleri üstlenirler.

Program Educational Objectives

Our graduates work as technical specialists or managers in design, production, and operational processes within national or international public and private sector organizations.Our graduates may pursue postgraduate studies to build an academic career or conduct scientific projects in advanced technology–focused research centers.Our graduates transform their professional knowledge into value-added business ideas by establishing their own companies or taking leadership roles in technology-oriented entrepreneurial ventures.

Program Outcomes

PÇ-1 Adequate knowledge of topics specific to mathematics, natural sciences, and electrical–electronics engineering; and the ability to apply this knowledge in modeling and solving complex engineering problems.

PÇ-2 The ability to identify, define, formulate, and analyze complex problems in electrical and electronics engineering by considering the UN Sustainable Development Goals and using fundamental science and engineering principles.

PÇ-3 The ability to design complex systems, devices, products, or processes to meet specified requirements while considering realistic constraints such as economic, environmental, sustainability, health, safety, and ethical factors.

PÇ-4 The ability to develop appropriate analytical models for solving complex engineering problems and to select and apply the most suitable and realistic solution methods while recognizing the constraints arising from existing conditions.

PÇ-5 The ability to conduct literature research for the investigation of complex problems; to design and conduct experiments, collect data, and analyze and interpret the obtained results.

PÇ-6 Knowledge of the impacts of electrical and electronics engineering applications on health, environment, and economy at global and societal levels within the scope of the UN Sustainable Development Goals; and awareness of the legal implications of engineering solutions.

PÇ-7 The ability to act in accordance with the professional principles of electrical and electronics engineering, knowledge of the ethical responsibilities required by the profession, and awareness of inclusiveness and non-discrimination based on the principle of impartiality

PÇ-8 The ability to work effectively as an individual, as a team member, or as a team leader in disciplinary and multidisciplinary teams in face-to-face, remote, or hybrid environments.

PÇ-9 The ability to communicate effectively on technical and academic matters by considering the differences of target audiences (such as education, profession, and cultural background).

PÇ-10 Knowledge of professional practice in areas such as engineering project management and economic feasibility analysis; and awareness of entrepreneurship and innovation culture.

PÇ-11 The ability for lifelong learning, including accessing information, closely following professional and technological developments, rapidly adapting to new advancements, and thinking independently and critically.

NQF Matrix

Subject Area	No	1	2	3	4	5	6	7	8	9	10	11
Beceriler	1	**x**	**x**	**x**	**x**	**x**	**x**	–	–	–	–	–
Bağımsız Çalışabilme ve Sorumluluk Alabilme Yetkinliği	1	–	–	–	–	–	–	–	–	–	–	**x**
Öğrenme Yetkinliği	1	**x**	**x**	–	**x**	**x**	–	–	–	–	–	–
İletişim ve Sosyal Yetkinlik	1	–	–	–	–	–	**x**	–	–	**x**	–	–
	2	–	–	–	–	–	**x**	–	–	–	–	–
Alana Özgü Yetkinlik	1	**x**	**x**	**x**	**x**	**x**	**x**	–	–	–	–	–

Course Plan

Semester 1

Code	Course Name	L	P	Lab	Credit	ECTS	Language
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
CHM 1001	General Chemistry	3	0	0	3	5	English
EE 1011	Introduction to Electrical and Electronics Engineering and Ethics	2	0	0	2	3	English
CS 1001	Introduction to Programming I	3	2	0	4	6	English
TURK 101	Turkish Language I	2	0	0	2	2	Turkish

Semester 2

Code	Course Name	L	P	Lab	Credit	ECTS	Language
TURK 102	Turkish Language II	2	0	0	2	2	Turkish
NAE 1000	Üniversite Seçmeli Dersler	0	0	0	0	0	-
ENEN 1002	English for Engineers II	3	0	0	3	3	English
MATH 1002	Calculus II	4	0	0	4	5	English
EE 1004	Linear Algebra and Complex Analysis	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 1004	Introduction to Programming in Python II	3	2	0	4	6	English

Semester 3

Code	Course Name	L	P	Lab	Credit	ECTS	Language
NAE 1000	Üniversite Seçmeli Dersler	0	0	0	0	0	-

Code	Course Name	L	P	Lab	Credit	ECTS	Language
MATH 2003	Differential Equations	4	0	0	4	5	English
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-
EE 2001	Circuit Theory I	4	0	0	4	4	English
EE 2003	Circuit Theory I Laboratory	0	2	0	1	2	English
EE 2005	Electromagnetic Field Theory	4	0	0	4	5	English
EE 2011	Digital Systems	3	0	0	3	4	English
EE 2013	Digital Systems Laboratory	3	0	0	1	2	English

Semester 4

Code	Course Name	L	P	Lab	Credit	ECTS	Language
NAE 1000	Üniversite Seçmeli Dersler	0	0	0	0	0	-
NAE 1000	Üniversite Seçmeli Dersler	0	0	0	0	0	-
ENEC 2000	Engineering Economics	3	0	0	3	3	English
MATH 2005	Probability and Statistics	3	0	0	3	5	English
EE 2002	Circuit Theory II	4	0	0	4	4	English
EE 2004	Circuit Theory II Laboratory	0	2	0	1	2	English
EE 2006	Electromagnetic Waves and Antennas	3	0	0	3	5	English
EE 2008	Semiconductor Device Principles	4	0	0	4	5	English

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
ENWH 1001	Worker Health and Occupational Safety I	2	0	0	2	2	English
MATH 2006	Numerical Analysis for Engineers	4	0	0	4	5	English
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-

Code	Course Name	L	P	Lab	Credit	ECTS	Language
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-
EE 3001	Analog Electronics	4	0	0	4	4	English
EE 3003	Analog Electronics Laboratory	0	2	0	1	2	English
EE 3005	Signals and Systems	4	0	0	4	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
ENWH 1002	Worker's Health and Occupational Safety II	2	0	0	2	2	English
EE 3000	Internship I	0	2	0	1	5	English
EE 3002	Introduction to Telecommunications	4	0	0	4	5	English
EE 3004	Introduction to Control Engineering	4	0	0	4	6	English
EE 3006	Energy Conversion	3	0	0	3	5	English
EE 3008	Microcontrollers	3	2	0	4	5	English

Semester 7

Code	Course Name	L	P	Lab	Credit	ECTS	Language
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-

Semester 8

Code	Course Name	L	P	Lab	Credit	ECTS	Language
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-

Code	Course Name	L	P	Lab	Credit	ECTS	Language
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-
AEEE 1000	Alan Seçmeli	0	0	0	0	0	-