



2025-2026 Academic Year
List of Courses Offered in Foreign Language
2025-2026 Akademik Yılı
Yabancı Dilde Açılacak Dersler Listesi

Institute of Natural and Applied Sciences
Fen Bilimleri Enstitüsü

	Department <i>Bölüm</i>	Course Code <i>Ders Kodu</i>	ECTS <i>AKTS</i>	Course Title <i>Dersin Adı</i>	Semester <i>Dönem</i>	Course Content <i>Dersin İçeriği</i>	Academic Staff <i>Dersi Veren Öğretim Elemanı</i>	Online Available <i>Çevrimiçi</i>
1	Electrical and Electronical Engineering <i>Elektrik-Elektronik Mühendisliği</i>	EEM5056	6	PRINCIPLES OF MICROWAVE MEASUREMENT	Spring <i>Bahar</i>	Teaching transmission lines, attenuators, calculation of reflection and transmission losses, matching circuits, Smith chart, and waveguides. Basic principles of electromagnetic laboratory equipment such as Vector Network analyzer, Spectrum analyzer, signal generator, amplifier, etc.	Arş. Gör.Dr. Atalay KOCAKUŞAK	Online Available <i>Çevrimiçi</i>
2	Electrical and Electronical Engineering <i>Elektrik-Elektronik Mühendisliği</i>	EEM7054	8	ELECTROMAGNETIC WAVE THEORY II	Spring <i>Bahar</i>	This course aims to enable students to apply the basic principles of electromagnetic wave theory to problems they may encounter in their thesis studies, scientific research, and working life and to produce solutions; Green's Functions and solution techniques, Aperture radiation, Fresnel and Fraunhofer Diffraction, Fundamentals of radiation systems, antennas and arrays, Fundamentals of scattering theory, diffraction, radiation, and scattering within the scope of applying theory, vector Green Functions, Radar cross-sectional area, radar equation, and scattering theory to basic sample objects.	Prof. Dr. Selçuk HELHEL	Online Available <i>Çevrimiçi</i>
3	Electrical and Electronical Engineering <i>Elektrik-Elektronik Mühendisliği</i>	EEM7030	8	MICROWAVE FILTER DESIGN	Spring <i>Bahar</i>	The content of the course is the design of filters, single and multi-stage amplifiers, parametric amplifiers, and oscillators in advanced high-frequency circuits using microstrip structures.	Prof. Dr. Selçuk HELHEL	Online Available <i>Çevrimiçi</i>
4	Electrical and Electronical Engineering <i>Elektrik-Elektronik Mühendisliği</i>	EEM7034	8	POWER GENERATION OPERATION AND CONTROL	Spring <i>Bahar</i>	The course deals with the application of advanced technologies, analysis methods and tools for the purpose of efficient system operation, control and reliability assessment of electrical power systems. In many applications of power engineering, power network analysis techniques are needed under steady-state conditions.	Doç. Dr. H. Feza CARLAK	Online Available <i>Çevrimiçi</i>