



2025-2026 Academic Year
List of Courses Offered in Foreign Language

2025-2026 Akademik Yılı
Yabancı Dilde Açılacak Dersler Listesi

Institute of Natural Sciences
Fen Bilimleri Enstitüsü

	Department Bölüm	Course Code Ders Kodu	ECTS AKTS	Course Title Dersin Adı	Semester Dönem	Course Content Dersin İçeriği	Academic Staff Dersi Veren Öğretim Elemanı	Online Available Çevrimiçi
1	EEM	EEM5047	8	Antennas and Antenna Propagation	Güz	This course teaches students to recognize the properties, fundamental parameters, and types of antennas, and to understand the propagation of electromagnetic waves and their interaction within the environment. It covers Maxwell's Equations, Electromagnetic Wave Propagation in Space, Antenna Definition, Antenna Parameters, Antenna Radiation Pattern and Impedance. The course also delves into Antenna Arrays and General Array Formula, Array Analysis and Synthesis Techniques.	Prof. Dr. Selçuk HELHEL	No
2	EEM	EEM5060	8	Semiconductor Electronics	Güz	This course aims to teach the fundamentals of Semiconductor Electronics. It covers Semiconductors: A General Introduction, Carrier Modeling, Carrier Action, Basics of Device Fabrication, pn Junction Diodes (including I-V Characteristics, Small-Signal Admittance, and Transient Response), Optoelectronic Diodes, BJTs and Other Junction Devices, and BJT Static and Dynamic Response Modeling.	Prof. Dr. Hüseyin Özgür KAZANCI	No