2023-2024 Academic Year
List of Courses Offered in Foreign Language
2023-2024 Akademik Yılı
Yabancı Dilde Açılacak Dersler Listesi

Faculty/Institute/Vocational School of/School of Akdeniz Üniversitesi
Mühendislik *Fakültesi/Enstitüsü/MYO/Yüksekokulu-EEM*

	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	EEM104	6	PHYSICS II	bahar	Electric charge and electric field Gauss' law Electrical potential Capacitance, dielectrics, storage of electrical energy	Dr. Öğr. Üyesi Deniz KAYA	Çevrimiçi
2	EEM	EEM108	2	Physics Laboratory	bahar	Experiments that test and apply some of the core topics that are learned in Physics I and Physics II.	Prof. Dr. Hüseyin GÖKSU	Çevrimiçi
3	EEM	MAT164	6	Mathematics II	bahar	Indefinite Integral, Definite Integral, Integral Applications, Multivariable Functions	Prof. Dr. Mehmet CENKCİ	Çevrimiçi
4	EEM	EEM110	5	Lineer Algebra and Vector Analysis	bahar	Indefinite Integral, Definite Integral, Integral Applications, Multivariable Functions	Arş. Gör Dr. Murat KARAÇAYIR	Çevrimiçi
5	EEM	EEM220	5	Circuit Theory II	bahar	Basic concepts, Kirchoff current and voltage laws, Dependent sources and OPAMPs, Circuit analysis methods (superposition, node voltages, ambient currents), First-order circuits, Second-order circuits.	Doç. Dr. H. Feza CARLAK	Çevrimiçi
6	EEM	EEM304	5	Power Electronics	bahar	Semiconductor power diodes. Diode circuits and rectifiers. Thyristors and controlled rectifiers. AC voltage controllers. Thyristor switching techniques. Power transistors and dc choppers. Pulse wide modulation inverters. Resonant pulse converters. Static switches and power supplies. DC and AC drives. Inverter and converter structures. Switch position	Prof. Dr. Selim BÖREKCİ	Çevrimiçi
7	EEM	EEM307	2	Power Electronics Laboratory I	bahar	Power electronics elements, circuits, design and application areas	Prof. Dr. Selim BÖREKCİ	Çevrimiçi
8	EEM	EEM316	2	Engineering Management	bahar	Definition and scope of management. Development of management ideas. Social and moral responsibilities of management. Functions of management: planning, organizing, leadership and supervision. Managerial decision making. Organizational design. Delegation of authority and managerial control.	Prof. Dr. Selçuk HELHEL	Çevrimiçi
9	EEM	EEM370	5	Analog Communication	bahar	orthogonal functions, amplitude modulation, angular modulation, noise in communication systems	Prof. Dr. Selçuk HELHEL	Çevrimiçi
10	EEM	EEM374	3	Communication Laboratory I	bahar	These topics include converting analog signals to digital and transmitting digital signals to baseband and passband channels.	Prof. Dr. Selçuk HELHEL	Çevrimiçi

11	EEM	EEM394	5	Introduction to optics and photonics	bahar	Introduction to optics and photonics, Nature of light, its production, Geometric optics, Paraxial optical matrix methods, Wave equation, superposition of waves, Light interference, interferometry, coherence, holography, Polarization, matrix methods, Fraunhofer diffraction, The diffraction grating, Fresnel diffraction	Dr. Atalay KOCAKUŞAK	Çevrimiçi
12	EEM	EEE4002	4	Graduaiton Project II	bahar	In this course, students are expected to research and realize the project they proposed in the first semester. A well-defined engineering problem must be solved using hardware and/or software and the solution must be realized by using the gains gained during Electrical and Electronics Engineering education. The results are reported as a thesis	Prof. Dr. Selçuk HELHEL	Çevrimiçi
13	EEM	EEE432	3	Power Electronics Laboratory II	bahar	Driver circuits for Thystor (SCR), Gate Insulated Thyristor (GTO), Tranzistor (BJT), MOSFET, Gate Insulated Transistor (IGBT) and MOS Controlled Thyristor (MCT). Switch losses, hard and soft switching, heatsink design. Electronic elements used in power electronic circuit design. Protection and control circuits. Power electronics circuit design	Öğr. Gör. Nihal ÇETİN ACAR	Çevrimiçi
14	EEM	EEE456	5	Introduction to medical imaging	bahar	Basic parameters in imaging and imaging systems Numerical performance measures, spatial resolution, noise and contrast. Basic principles and applications of modern medical imaging systems.	Doç. Dr. Çiğdem SARAÇ	Çevrimiçi
15	EEM	EEE488	5	Radar Systems	bahar	Properties of radar signals, radar and system parameters, radar cross-section, radar propagation, radar equation, CW radars, moving target radars, tracking radars, SAR radars and their applications.	Prof. Dr. Hüseyin GÖKSU	Çevrimiçi
15	EEM	EEE490	2	Investment project analysis	bahar	Project Types, development of investment projects; economic and financial evaluation; risk in fixed investment projects; inflation effects; financing and lending of investments; techniques for evaluating investment projects	Doç. Dr. Yeşim HELHEL	Çevrimiçi
16	EEM	EEE486	5	Microwave circuit design	bahar	High frequency transmission lines, Electric and Magnetic Field Calculations, Reflection and Transmission, Characteristic Impedance and Line Calculations, Impedance Matching, S Parameters, high frequency amplifiers, directed couplers and power dividers.	Prof. Dr. Selçuk HELHEL	Çevrimiçi