

2026-2027 Academic Year
List of Courses Offered in Foreign Language
2026-2027 Akademik Yılı
Yabancı Dilde Açılacak Dersler Listesi

Faculty of Engineering
Mühendislik Fakültesi

	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	Mechanical Engineering	MAK201	4	Materials Science	Fall/Spring	Fundamentals of materials science. Atomic structure, Mechanical properties, Failure, creep, fatigue	Prof. Dr. H. Erdem Çamurlu	No
2	Mechanical Engineering	MAK363	2	Technical English 1	Fall/Spring	Chapters titled Steel, heat treatment of steel, lubrication of bearings, text, vocabulary and patterns that are commonly used in technical english	Prof. Dr. H. Erdem Çamurlu	No
3	Mechanical Engineering	MAK403	5	Machine Project	Fall/Spring	Student fulfills a literature survey as a project and at the end of the semester, student prepares a thesis on his project.	Prof. Dr. H. Erdem Çamurlu	No
4	Mechanical Engineering	MAK423	3	Introduction to Powder Metallurgy	Fall/Spring	Fundamentals of Powder Metallurgy, metal powder production and characterization, shaping operations, pressing and sintering	Prof. Dr. H. Erdem Çamurlu	No
5	Mechanical Engineering	MAK421	3	Materials Selection	Fall/Spring	Fundamentals of materials selection. Selection diagrams. Selection criteria, strength, toughness, ductility.	Prof. Dr. H. Erdem Çamurlu	No
6	Mechanical Engineering	MAK202	4	Engineering Materials	Fall/Spring	Binary phase diagrams, steel, heat treatment of steel, cast iron; aluminum, copper alloys, ceramics, composites	Prof. Dr. H. Erdem Çamurlu	No
7	Mechanical Engineering	MAK362	2	Technical English 2	Fall/Spring	Chapters titled Welding, Petrol Engine, Steam boilers, text, vocabulary and patterns that are commonly used in technical english	Prof. Dr. H. Erdem Çamurlu	No
8	Mechanical Engineering	MAK420	3	Non-Destructive Testing	Fall/Spring	Visual inspection, Liquid penetrant test, magnetic particle test, ultrasonic test, radiographic test	Prof. Dr. H. Erdem Çamurlu	No
9	Mechanical Engineering	MAK314	3	Seminar	Fall/Spring	Student fulfills a literature survey as a project and at the end of the semester, student prepares a presentation on his project.	Prof. Dr. H. Erdem Çamurlu	No
10	Mechanical Engineering	MAK404	10	Graduation Project	Fall/Spring	Student fulfills a project with an instructor and at the end of the semester, student presents his project.	Prof. Dr. H. Erdem Çamurlu	No
11	Mechanical Engineering	MAK412	3	Non-Ferrous Materials	Fall/Spring	Aluminum alloys, copper alloys, magnesium alloys, titanium alloys, composites	Prof. Dr. H. Erdem Çamurlu	No
12	Mechanical Engineering	MAK418	3	Composite Materials	Fall/Spring	Metal matrix composites, Ceramic matrix composites, Polymer matrix composites, production methods and properties of composite materials.	Prof. Dr. H. Erdem Çamurlu	No
13	Mechanical Engineering	MAK5023	6	Powder Metallurgy	Fall/Spring	Powder metallurgy of iron parts, copper parts, titanium parts, aluminum parts, full density operations	Prof. Dr. H. Erdem Çamurlu	No
14	Mechanical Engineering	MAK7017	8	Materials Characterization Techniques	Fall/Spring	Optical microscopy, transmission and scanning electron microscopy, X-ray diffraction analysis, Thermal analysis, elemental analysis	Prof. Dr. H. Erdem Çamurlu	No
15	Mechanical Engineering	MAK5016	6	Advanced Surface Processes	Fall/Spring	Shot peening, flame and induction hardening, carburization, nitriding processes, chemical conversion coatings	Prof. Dr. H. Erdem Çamurlu	No
16	Mechanical Engineering	MAK7028	8	High Temperature Materials and Applications	Fall/Spring	Requirements for high temperature use, methods for improving high temperature characteristics, high temperature alloys	Prof. Dr. H. Erdem Çamurlu	No