



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