



2024-2025 Academic Year
List of Courses Offered in Foreign Language

2024-2025 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	Geological Engineering	JEO 5050	8	Measuring The Engineering Properties of Soils	Spring	Soil Definition. Laboratory Tests on Soils. Determination of Physical Properties of Soils. Atterberg Limits. Sieve Analysis. Hydrometer Analysis. Direct Shear Test. Consolidation Test. Field Tests on Soils. Standard Penetration Test. Pressuremeter Test. Cone Penetration Test. Dilatometer Experiment. Field Application.	Asist. Prof. Dr. Özgür AKTÜRK	X
2	Geological Engineering	JEO 5053	8	Geotechnical Field Investigations	Fall	The Role of The Geotechnical Engineer in Subsurface Surveys. The Stages of Field Surveys. Field Research Planning. Drilling in Field Research. Sampling from Soil-Rock Samples with Drilling Works. Field Visits. Drilling Log Preparation. In-Situ Soil-Rock Tests. Interpretation of Soil-Rock Properties. Geotechnical Contracts. Geotechnical Reports.	Asist. Prof. Dr. Özgür AKTÜRK	X
3	Geological Engineering	JEO 5071	8	Advanced Magmatic Petrology	Fall	Major, Trace and Rare Earth Element Geochemistry of Igneous Rocks. Partial Melting and Assimilation and Fractional Crystallization. The Formation of Basaltic and Silicic Magmas. Magma Types and Geotectonic Environments. Magma Related Mid-Ocean Ridge (MOR), Oceanic Arc (OA), Intra-Plate and Subduction. Isotopic Interpretation of The Resource Reservoirs of The Magmas. Mantle Dynamics and Geodynamic Modeling. Global Tectonism and Magmatism Relations.	Prof. Dr. Nurdane İLBEYLİ	X
4	Geological Engineering	JEO 7035	10	Petrogenesis of Ophiolitic Rocks	Fall	Mid-Ocean Rift Plate Boundaries Separated The Oceanic Crust Formation. Identification of The Ophiolite. Forming Ophiolite Rocks. Ophiolite Geochemistry. Formation Mechanisms and Their Modeling. The Origin of Ophiolites in Turkey.	Prof. Dr. Nurdane İLBEYLİ	X