



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

**Institute of Natural and Applied Sciences**  
**Fen Bilimleri Enstitüsü**

	<b>Department</b> <i>Bölüm</i>	<b>Course Code</b> <i>Ders Kodu</i>	<b>ECTS</b> <i>AKTS</i>	<b>Course Title</b> <i>Dersin Adı</i>	<b>Semester</b> <i>Dönem</i>	<b>Course Content</b> <i>Dersin İçeriği</i>	<b>Academic Staff</b> <i>Dersi Veren Öğretim Elemanı</i>	<b>Online Available</b> <i>Çevrimiçi</i>
1	Geological Engineering	JEO 5033	6	Geology and Petrography of Granite	Spring	S-I-M-A Type Granitoids, Effective Processes of Solidification and Formation of Granitic Rocks (Fractional Crystallisation, Assimilation, Assimilation-Fractional Crystallisation), Granite rocks Distributed in Turkey and Their Properties, Examination of Granitic Rocks at Microscopic Analysis.	Prof. Dr. Nurdane İLBEYLİ	x
2	Geological Engineering	JEO 5050	6	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.	Asst. Prof. Dr. Özgür AKTÜRK	x
3	Geological Engineering	JEO 5053	6	Geotechnical Field Investigations	Spring	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.	Asst. Prof. Dr. Özgür AKTÜRK	x
4	Geological Engineering	JEO 5063	6	Geochemistry of Magmatic Rocks	Spring	Definition of Geochemistry, Geochemical Properties of Petrogenetic Indicator in Igneous Rocks, Mobility and Imobility in Elements, Mineral and Rock Chemistry, Geochemical Interpretation of Phase Diagrams, Geochemical Interpretation of Eh-pH Diagrams, Geochemical Data Collection and Analysis Methods, Structure and Chemical Composition of Earth	Prof. Dr. Nurdane İLBEYLİ	x