

## COURSE LIST

### Institute of Natural and Applied Sciences

#### Field : Geophysical Engineering

Course Title	Code	ECTS Credit	COMU Credit	Lecturer
Passive Geophysical Methods	ULP-21-JF001	7.5	3	Assoc. Prof. Dr. Özcan ÇAKIR
Advanced Electrical Methods in Geophysics	ULP-21-JF002	7.5	3	Assoc. Prof. Dr. Nart COŞKUN

Course Code	ULP-21-JF001
Name of the Course in English	Passive Geophysical Methods
Name of the Course in Turkish	Pasif Jeofizik Yöntemler
Language of the Course	English
Level of the Course	Master
Lecturer	Assoc. Prof. Dr. Özcan ÇAKIR
ECTS Credit	7.5
COMU Credit	3
Description	Introduction to Earth structure, multidimensional Earth, anisotropy, p receiver , s receiver functions, surface wave phase velocity, magneto telluric data, tomography, joint inversion, inversion of gravity data, software development, problem solutions.

Course Code	ULP-21-JF002
Name of the Course in English	Advanced Electrical Methods in Geophysics
Name of the Course in Turkish	Jeofizikte İleri Elektrik Yöntemler
Language of the Course	English
Level of the Course	Master
Lecturer	Assoc. Prof. Dr. Nart COŞKUN
ECTS Credit	7.5
COMU Credit	3

Description

Introduction. Potential distribution in the earth. Electrical potential equations. The resistivity methods. Apparent resistivity measurements and interpretation procedures. Electrical sounding on multiple horizontal beds. Electrical mapping in three dimensional anomalies. Modeling of apparent resistivity curves. Self-potential (SP) method. Origin of SP and SP field procedures. Interpretation of SP data. Sources of the induced polarization (IP) effects. IP measurements and field operations. Interpretation of IP data. Noise sources in IP.