AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Earth Science								
Course Code	FBÖ308		Couse Level	First Cycle (Bachelor's Degree)					
ECTS Credit	4	Workload	50 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	It is essential to inform the students about the shape of the earth, its movements, geological cycles, the shape and movements of the atmosphere, while at the same time informing them about the atmosphere and its layers, weather events that surround the outer surface of the earth, and to raise the students to the level of cognition that will enable them to apply what they have learned to their own lives.								
Course Content	The definition and scope of geology. General information about the Earth: its the shape and size, ground movements, its geospheres, heat, gravity and isostasy. Substances that make up the Earth: Minerals and deposits. The important minerals in the rock: Rocks, description and general information, igneous rocks, metamorphism and metamorphic rocks, sedimentary rocks, and soil degradation, decomposition of rocks, soil conditions and types. Tectonic movements: Orogenic, epirogenic movements, faults, volcanism and earthquakes. Stratigraphy: general principles, concepts, interpretation of geological periods.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study, Project Based Study								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Final Examination	1	110

Recommended or Required Reading	
1	Atalay, İ. (2004). Türkiye coğrafyası ve jeopolitiği. Meta basım.
2	Şahin, C. (2006). Türkiye Fiziki Coğrafyası. Gündüz Eğitim ve Yayıncılık.
3	Şahin, C., Şahin, C., & Doğanay, H. (2000). Türkiye coğrafyası:(fiziki-beşeri-ekonomik-jeopolitik). Gündüz Eğitim ve Yayıncılık.
4	Karabağ, S., & Şahin, S. (2014). Türkiye beşerî ve ekonomik coğrafyası. Pegem Akademi, Ankara.

Week	Weekly Detailed Course Contents	
1	Theoretical	Meeting with students, talking about expectations for the course
2	Theoretical	Discussion of the methods, techniques and strategies used in the implemented activities, the selected measurement and evaluation approaches, and the possible situations that occurred or may occur during the implementation
3	Theoretical	Movements of the Earth
4	Theoretical	Earth's Interior Structure and Composition: Geospheres of the Earth
5	Theoretical	Earth's temperature, gravity and isostasy, age of the earth
6	Theoretical	Substances that make up the Earth's crust: Minerals, definition and properties. Important minerals that make rocks
7	Theoretical	Rocks, definition and general information, igneous rocks, metamorphism and metamorphic rocks, sedimentary rocks
8	Theoretical	Geological Times
9	Theoretical	Geological Times
10	Theoretical	Earth Crust Movements (Internal Forces): Orogenic movements, epirogenic movements
11	Theoretical	Earth Crust Movements (Internal Forces): Volcanism and earthquakes
12	Theoretical	Earth Crust Movements (External Forces): River, wind, glacier, karst shapes
13	Theoretical	Soil Geography: Thawing and soil formation, soil types
14	Theoretical	Soil Geography: Thawing and soil formation, soil types- Vegetation Geography

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	10	3	1	40
Individual Work	1	3	0	3

Final Examination	1	5	2	7
			Total Workload (Hours)	50
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To understand the components of the ecosphere (lithosphere, hydrosphere, atmosphere, biosphere) and their formation stages and distributions in time and space and to interpret them by establishing various relationships,
2	By learning the internal structure of the earth and the properties of the earth's crust, the students will be able to comprehend how the geological, paleontological and geomorphological features that occur in every bit process shape the structure of the earth,
3	To be able to explain the definition of geography, geomorphology, geology, the shape and movements of the earth, internal forces and external forces,
4	Interpret the internal forces that shape the earth, the internal temperature of the earth, gravity and isostasy and the materials (minerals and rocks) that make up the earth's crust,
5	can explain geologic times and various geologic and geomorphologic events that occurred during these times,
6	can explain orogenic, epirogenic, volcanism and earthquake movements caused by internal forces
7	Understands soil formation and vegetation, soil types and factors affecting soil formation and plant belts and their properties.

Programme Outcomes *(Science Teacher Education)*	
1	To be able to gain subject knowledge of profession in theory and practice in the learning process.
2	To be able to gain the competence of using the appropriate approach, strategy, method and technique for the instructional plans to be prepared in the learning process.
3	To be able to gain the skills of the teaching profession in the learning process.
4	To be able to implement teaching profession knowledge, skills, attitudes and habits related to the subject-matter in a real teaching and learning environment in the learning process.
5	To be able to comprehend contemporary approaches of education and the philosophy they are based on.
6	To be able to gain the basic skills such as comprehending, expressing, commenting, evaluating, being aware and enterprising, communicating, acknowledging the individual related to the subject-matter.
7	To be able to become individuals faithful to the Principles and Revolutions of Ataturk, be modern democratic, secular, protecting and deveoping one's country, being alive to the nation, respecting human rights, preserving the nature, not being discriminatory, giving importance to the traditions and customs, protecting the values
8	To be able to improve oneself in terms of sport, art and culture.
9	To be able to become individuals believing in lifelong learning.
10	To be able to gain the vision of being individuals who keep up with developments in social, economic, technological and scientific areas, who investigate the main reasons of World problems and try to contribute to the solutions of these problems.

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4	L5	L6	L7
P1	4	4	4	4	3	3	4
P2	3	3	3	3	4	4	3
P9	4	4	4	4	4	4	4