AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Earth Sciences								
Course Code	FBÖ254			Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit	3	Workload	75 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Earth Science course aims to introduce the characteristics of the theoretical competence within the scope of definitions, concepts and issues, relational systems that interact with these issues. In this course the student will learn the earth's geomorphology, hydrography, atmosphere, biosphere and learn about the basic features, the dynamic factors of the environment and have knowledge about the processes and policies.								
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), Individual Study, Problem Solving								
Name of Lecturer(s)	Prof. Sultan BAYSAN								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	ATALAY; İ. Genel Fiziki Coğrafya, Meta Basım, 2005, İzmir
2	DOĞANAY, H. Yer Bilimi: Fen Bilimlerinde Özel Konular 2, , ISBN 9758986082, Aktif Yayınevi, 2005, İstanbul.
3	GEOSYSTEMS; An Introduction to Physical Geography, R.W. Christopherson, ISBN 0-13-505314-5, Prentice Hall, 1997, US.
4	PHYSICAL GEOGRAPHY, Science and Systems of the human environment, A. Strahler-A. Strahler, ISBN 0-471-11299-2, John Wiley & Sons, Inc., 1997.

Week	Weekly Detailed Course Contents	
1	Theoretical	The definition of geography, geomorphology and geology
2	Theoretical	Reading of related pages in source books
3	Theoretical	General information about the Earth: the shape and its dimensions
4	Theoretical	Earth movements
5	Theoretical	Internal Structure and composition of the Earth Earth's geosfers
6	Theoretical	Heat, gravity and isostasy, age of the Earth
7	Theoretical	Substances that make up Earth's crust: Minerals, Rocks, description and general information, igneous rocks, metamorphism and metamorphic rocks, sedimentary rocks
8	Theoretical	Crustal Movements in geological times (Interior Forces): Volcanism and Earthquakes
9	Intermediate Exam	Midterm exam
10	Theoretical	Crustal Movements (Interior Forces): Orogenic and epirojenic movements
11	Theoretical	Crustal Movements (External Forces): Bodies of Water, wind, glacial, karst forms
12	Theoretical	Soil Geography: Decomposition and soil formation, soil types and land endowments
13	Theoretical	Vegetation geography
14	Theoretical	Atmospeheric Phenomena, climates geological originated natural disasters
15	Theoretical	Meteorological based disasters, disaster management
16	Final Exam	FINAL EXAM

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Midterm Examination	1	8	1	9

Final Examination	1	9	1	10
			Total Workload (Hours)	75
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Learn about the basic features of the Earth’s hydrography, atmosphere and characteristics
2	Learn about the processes and dynamic factors in the environment
3	Understand different ambient conditions shaping the environment,
4	In general education, special education theory and practice as a subject area, and this knowledge will contribute to a comprehensive and updated information on the basic concepts and theories to have knowledge of different disciplines,
5	To know ways in life-long learning to access information which is necessary for their life

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
P1	5	5	5	5	5
P2	5	5	5	4	4
P3	5	4	5	5	5
P4	4	5	4	4	4
P5	5	4	5	4	5
P6	4	5	5	4	5
P7	5	4	4	5	5
P8	5	5	5	4	5
P9	4	4	4	5	5
P10	5	5	5		4