



EK-3

**CUMHURİYET UNIVERSITY ENGINEERING FACULTY****Environmental Engineering Department Course Information Form**

Department	Environmental Engineering		
Semestr/Year	1		
Name of Course	Environmental Geology		
Level of Course	Undergraduate		
Mandatory / Selective of Course	Mandatory		
Language of Course	Turkish		
Code	Env. 2017		
(T+P) hours	2+0		
Credit	2		
ECTS	5		
Prerequest Courses	none		
Category of Course	Environmental Science		
Course Coordinator	Prof. Dr. Ali YILMAZ	e-mail:ayilmaz	Phone:1298
Course Lecturer	Prof. Dr. Ali YILMAZ		
Other Supplementary Lecturers	none		
Course Objectives	This course aims to contribute teaching main geological information to solve environmental problems.		
Course Content	Philosophy and fundamental principles of environmental geology, Universe and earth, Basic features of the earth, gravity and isostasy. Minerals and rock units, Soil and erosion, Structural geology and tectonics, Geologic age, the sequence and geological relationships. Water resources and aquifer, Hazardous earth processes: Earthquakes and related phenomena, Landslides, Flooding, Volcanic activity, Coastal hazards, Plate		

	tectonics Human interaction with environment: Waste management and disposal, Medical geology and environmental health, Land use planning and decision making.
Education System	

WEEKLY BASED COURSE CONTENTS		
Week	Detailed Content	Suggested preliminary preparation (name, page no, etc)
Week 1	Philosophy and fundamental principles of environmental geology,	Yılmaz, A., 2008, Çevre Jeolojisi (Environmental Geology), CÜ yayını, no 107, Sivas.
Week 2	Universe and earth, Main features of the earth,	
Week 3	Minerals and rock units, Soil and erosion,	
Week 4	Structural geology and tectonics,	
Week 5	Geologic age, the sequence and geological relationships,	
Week 6	Water resources and aquifer,	
Week 7	Hazardous earth processes I: Earthquakes and Landslides,	
Week 8	Hazardous earth processes II: Flooding, Volcanic activity, Coastal hazards,	
Week 9	Midterm exam,	
Week10	Plate tectonics and biogeochemical cycles,	
Week11	Human interaction with environment: Waste disposal,	
Week12	Medical geology and environmental health,	
Week13	Waste Management and site selection,	
Week14	Land use planning and decision making.	

SHARING EDUCATION MATERIAL AND ADVANCED SOURCES	
Education Materials and Course Notes	Homeworks and seminars are encouraged to improve student interactions.
Advanced Sources	Keller, E.A., 1979. Environmental Geology, Second Edition: Charles E. Merrill Publishing Company, A Bell and Howell Company, Columbus, Ohio 43216, USA, 584s. Monroe J. S. ve Wicander, R. 2007, Fiziksel Jeoloji (Çeviri JMO Seri no 1), Ankara, 642s.
Solution of Examination	In the frame of relative evaluation, students must score minimum 45 over 100, during not only mean of midterm and final exams but also during final exam.

LEARNING OUTCOMES OF THE COURSE AND CONTRIBUTION OF PROGRAM LEARNING OUTCOMES			
Program Learning Outcomes*	Knowledge and Skills earned	CPLOC	MEM
LO-1			
LO-2			
LO-3			
LO-4			
LO-5			
LO-6			
LO-7			
LO: Learning Outcomes of Course CPLOC: Code of Program Learning Outcome that contributed MEM: Measurement and Evaluation Method			

* Learning Outcomes of Course (LO) shouldn't exceed 10

CONTRIBUTION LEVEL OF COURSE TO PROGRAM OUTCOMES						
No	Program Learning Outcomes *	Contribution level **				
		1	2	3	4	5
P1						
P2						
P3						
P4						
P5						
P6						
P7						
P8						
P9						
P10						
P11						

* iProgram outcomes must be in the range of 8 – 14. ** at least=1

METHODS OF MEASUREMENT AND EVALUATION			
Method	Number	Date	Contribution ratio
Midterm			
Short exam			
Final Exam			
Homework			

ECTS/ WORK LOAD TABLE			
Efforts required fort the course	Number	Time (hour)	Total work load (hour)
Lecture hours (Including exam week.i.e., 16x total lecture hours)			
Study hours of student			

out of lecture hours			
Short exams			
Preperation for midterm			
Midterm			
Preperation for final exam			
Final exam			
Total work load			
Total work load /30 (h)			
ECTS credit of course			