



EK-3

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

Department	Environmental Engineering		
Semestr/Year	2		
Name of Course	Natural Resources Management		
Level of Course	Postgraduate		
Mandatory / Selective of Course	Mandatory		
Language of Course	Turkish		
Code	Env. 9002		
(T+P) hours	3+0		
Credit	3		
ECTS	10		
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	Introducing natural resources and contribution to environmental management by assessing environmental impacts of the resources		
Course Content	Natural resources concepts in environmental science, Importance of unrenueable natural resources, Some natural raw-materials: clays, evaporites, zeolites, Metalic resources: gold, cupper, zinc, cromite and iron, Energy resources: coal, oil, natural gas and renewable resources, Definition and characteristics of these resources, Technology and production methods, Using of natural resources in environmental technologies, Environmental problems and precautions related to the planning, construction and operation phases of natural resources, Planning of natural resources.		

Education System	
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WEEKLY BASED COURSE CONTENTS		
Week	Detailed Content	Suggested preliminary preparation (name, page no, etc)
Week 1	Natural resources concepts in environmental science, Importance of unrenewable natural resources,	Yılmaz, A. , 2009, Çevre Kaynakları: Cumhuriyet Üniversitesi Yayınları no. 117, Sivas, 348s.
Week 2	Mainly industrial raw-materials I: clays, evaporites, zeolites,	
Week 3	Mainly industrial raw-materials II: asbestos, perlite, marble, diatomite, ponzia, trona.	
Week 4	Metalic resources I: gold, cupper, zinc, cromite and iron,	
Week 5	Metalic resources II: cromite and iron,	
Week 6	Energy resources I: Unrenewable resources; Coal, oil, natural gas	
Week 7	Energy resources I: Renewable resources; Solar and wind resources, geothermal energy	
Week 8	Water resources	
Week 9	Oceanic resources	
Week10	Land resources I- Food production	
Week11	Land resources II- Forests	
Week12	Land resources III- Biodiversity and protected resources	
Week13	Environmental wealth and limits to growth	
Week14	Sustainability phenomena	

SHARING EDUCATION MATERIAL AND ADVANCED SOURCES	
Education Materials and Course	Homeworks and seminars are encouraged to improve student interactions.

Notes	
Advanced Sources	Mather, A.S. ve Chapman, K., 1998. Environmental Resources: Addison Wesley Longman Edinburg Gate Harlow Essex CM 202 JE, England, 279s. Kay, J., 1985, Preconditions of natural resource conservation; Agricultural History, 59, 275-300.
Solution of Examination	Evaluation is done on the basis of final exam. Students must score minimum 75 over 100.

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	