EK-3

CUMHURİYET UNIVERSITY ENGINEERING FACULTY

Environmental Engineering Department Course Information Form

Department	**Environmental Engineering**		
Semestr/Year	**1**		
Name of Course	**Advanced Environmental Science I**		
Level of Course	**Postgratuate**		
Mandatory / Selective of Course	**Selective**		
Language of Course	**Turkish**		
Code	**Env. 6623**		
(T+P) hours	**3+0**		
Credit	**3**		
ECTS	**7.5**		
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			
Course Objectives	Comprehending main basics and developments of Advanced Environmental Science		
Course Content	Fundamental concepts of Environmental Science, System concept and holistic approach, Balance of a system and biodiversity, Relationships between environment and man, Ecosystems and Biogeochemical Cycles, Effects of Biogeochemical Cycles on the Environmental Health, Relationships between natural resources, economy and environment, Sustainable development, Land-use planning, Environmental policies and management.		

Education System	

WEEKLY BASED COURSE CONTENTS		
Week	**Detailed Content**	**Suggested preliminary preperation** (name, page no, etc)
Week 1	Fundamental concepts of environmental science,	McKinney, M. L., Schoch, R. M., and Yonavjak, L., 2007, **Environmental Science**, Jones and Bartlett Publishers, London W6 7PA, UK, 642p.
Week 2	System concept and holistic approach,	Smithson, P., Addison, K., and Atkinson, K., 2002**, Fundamentals of the Physical Environment,** Routhledge 11 New Fetter Lane, Third Edition, London EC4P4EE, England, 627s.
Week 3	Balance of a system and biodiversity,	http://www.routledge.com/textbooks/fundamentals
Week 4	Relationships between environment and man,	
Week 5	Ecosystems and biogeochemical cycles,	
Week 6	Effects of biogeochemical cycles on the environmental health,	
Week 7	Relationships between natural resources, economy and environment,	
Week 8	Sustainable development,	
Week 9	Land-use planning,	
Week10	Global climate change,	
Week11	Environmental economics,	
Week12	Historical and cultural aspects,	
Week13	Hazardeous wastes and environmental pollution,	
Week14	Environmental policies and management,	

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

Advanced Sources	McKinney, M. L., Schoch, R. M., and Yonavjak, L., 2007, **Environmental Science**, Jones and Bartlett Publishers, London W6 7PA, UK, 642p. Botkin, D.B. ve Keller, E.A., 1995. **Enviromental Science,** Earth As a Living Planet: John Willey and Sons Inc., Newyork, s.550-571, 627s.
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*			

* Learing 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						

* ıProgram 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	