

ÇANKAYA UNIVERSITYFaculty of Economics and Administrative Sciences Course Definition Form

Part I. Basic Course Information

Part I. Basic	Cour	se information			
Department N	ame	ECONOMICS	Dept. Numeric Code	3 1	
Course Code		E C O N 4 4 8 Number of Weekly Lecture Hours	Number of Weekly Lab/Tutorial Hours	Number of Credit Hours	3
Course Web S	Site	http:// econ448.cankaya.edu.tr	ECTS Credit	0 5	
		ner Course Information pear in the printed catalogs and on the web online cata	alog.		
English Name Environmental and Resource Economics					
Turkish Name Çevre ve Doğal Kaynak Ekonomisi					
Mode of Delivery	Face t	o face			
Language of Instruction	Englis	n			
Provide a brief catalog.	overvie	w of what is covered during the semester. This informat	tion will appear in the printed ca	atalogs and on the web or	nline

catalog.	
Maximum 60 words.	
covered in this field include property	n of economic principles in the analysis of environmental and natural resource issues. The topics to be ights, externalities, environmental valuation, static and dynamic efficiency, models of natural resource uses, water, fisheries, forestries, air pollution, water pollution, and sustainable development.

Prerequisites (if any) Give course codes	1 st	2 nd	3 rd 4 th			
and check all that are applicable.	Consent of the Instructor	☐ Senior Standing	Give others, if an			
Co-requisites (if any)	1 st	2 nd	3.4	4 th		
Course Type Check all that are applicable	☐ Must course for dept ☐ M dept.(s)	lust course for other dept.(s)	Elective course for dept.	Blective course for other		

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Part II. Detailed Course Information

Course Objectives

Maximum 100 words

This course is designed to introduce students to the fundamental theories and issues of environmental and natural resource economics. The course develops a rationale for, and explains the methodologies used in, the application of economic theory in analyzing environmental and resource problems.

Learning Outcomes

Explain the learning outcomes of the course. Maximum 10 items.

Upon successful completion of this course, students will be able to:

- 1. Understand the role of economic theory in the analysis of environmental and resource issues.
- 2. Develop an understanding of the role of markets, and the limits of markets as mechanisms to manage environmental and resource problems
- 3. Identify different kinds of market failure related to the environment and the natural resources.
- 4. Demonstrate how particular analytical techniques may be applied to problems involving natural resources and the environment.
- 5. Identify the economic costs and benefits of a particular environmental policy and the tools that can be used to estimate these costs and benefits.
- 6. Assess the advantages and limitations of using cost-benefit analysis to inform public policy.
- 7. Get a good knowledge of the economic principles of optimal exploitation of depletable and renewable resources.
- 8. Understand the key issues involved in dealing with the environmental pollution.

Textbook(s)							
List the textbook(s), if any,	and other related main course material.						
Author(s)	Title	Publisher	Publication Year	ISBN			
Tietenberg, T. and L. Lewis	Environmental & Natural Resource Economics, 10th edition	Pearson Education	2015	978-1292060798			

Reference Books List, if any, other reference books to be used as supplementary material.							
Author(s)	Title	Publisher	Publication Year	ISBN			
Harris, J. M. and B. Roach	Environmental and Natural Resource Economics: A Contemporary Approach, 4th edition	Routledge	2017	978-1138659476			
Hartwick, J. and N. Olewiler	Economics of Natural Resource Use, 2nd edition	Pearson Education	1997	978-0321014283			
Perman, R., Y. Ma, M. Common, D. Maddison, and J. McGilvray	Natural Resource and Environmental Economics, 4th edition	Pearson Education	2012	978-0321417534			

Teaching Policy

Explain how you will organize the course (lectures, laboratories, tutorials, studio work, seminars, etc.)

The teaching strategy will be mostly based on lectures and problem solving. Students are expected to participate in class discussions and are encouraged to ask questions and share their opinions. Instructor will hold regular office hours specifically to answer students' questions about the course material and assist them.

Laboratory/Studio Work

Give the number of laboratory/studio hours required per week, if any, to do supervised laboratory/studio work and list the names of the laboratories/studios in which these sessions will be conducted.

NA

Computer Usage

Briefly describe the computer usage and the hardware/software requirements for the course.

NA

	Course Outline List the weekly topics to be covered.		
Week	Topic(s)		
1	Property rights, externalities, and environmental problems.		
2	Valuing the environment: concepts and methods.		
3	Dynamic efficiency and sustainable development.		
4	Population growth.		
5	Models of natural resource use over time: depletable resources.		
6	Models of natural resource use over time: renewable resources.		
7	Midterm exam.		
8	Energy: the transition from depletable to renewable resources.		
9	Recyclable resources and water.		
10	Fisheries and forestries.		
11	Environmental economics: an overview.		
12	Air pollution: local and regional; Climate change.		
13	Water pollution and toxic wastes.		
14	The quest for sustainable development.		

Grading Policy List the assessment tools and their percentages that may give an idea about their relative importance to the end-of-semester grade.								
Assessment Tool Quantity Percentage Assessment Tool Quantity Percentage Assessment Tool Quantity Percent								Percentage
Term Paper	1	25						
Midterm Exam	1	25						
Final Exam	1	40						
Class Participation	1	10						

Activity	Quantity	Duration (hours)	Total Workload (hours)
Attending Lectures (weekly basis)	14	3	42
Attending Labs/Recitations (weekly basis)	-	-	-
Compilation and finalization of course/lecture notes (weekly basis)	14	1	14
Collection and selection of relevant material (once)	1	1	1
Self-study of relevant material (weekly basis)	14	2	28
Take-home assignments	-	-	-
Preparation for quizzes	-	-	-
Preparation for mid-term exams (including the duration of the exams)	1	10	10
Preparation of term paper/case-study report (including oral presentation)	1	10	10
Preparation of term project/field study report (including oral presentation)	-	-	-
Preparation for final exam (including the duration of the exam)	1	20	20
	TOTAL	WORKLOAD / 25	125/25
		ECTS Credit	5

Program Qualifications vs. Learning Outcomes Consider the program qualifications given below as determined in terms of learning outcomes and acquisition of capabilities for all the courses in the curriculum. Look at the learning outcomes of this course given above. Relate these two using the Likert Scale by marking with X in one of the five choices at the right.

No	Program Qualifications		Contribution				
140	· ·	0	1	2	3	4	
1	To know the fundamental concepts in economics and associated social sciences, and relate these					х	
	concepts to each other.						
	To know the quantitative and qualitative methods and computer skills necessary for testing hypotheses						
2	derived from economic theories for the purpose of contributing towards the solution of economic			х			
	problems.						
_	To acquire the necessary knowledge for gathering and processing data, and for building up the scientific						
3	research capacity to guide economic policy.			Х			
	To specialize in some of the sub-disciplines of economics, and to gain interdisciplinary analytical skills by						
4	making connections between those sub-disciplines and other social sciences.				Х		
5	To have the ability to question, interpret, and analyze the findings of economic studies.					х	
	To develop the ability to present in writing as a report and verbally as a presentation the knowledge						
6			х				
	acquired through education.						
7	To be able to work in teams, and when necessary to rise up to the challenge individually.				х		
8	To gain life-long learning and critical-thinking skills.					х	
	To be able to assess one's need for advanced study and to make plans accordingly by using the critical						
9	and analytical thinking skills gained during undergraduate studies.			Х			
	To gain the ability to use a language at least at the Level B1 of the European Language Portfolio to						
10	follow economic news and developments, and to communicate with colleagues.			Х			
	To maintain scientific, social, and ethical standards when collecting, interpreting, and disseminating						
11	economic information, and in application of economic ideas.					Х	
12	To be conscious of social and environmental needs.					х	
10	To develop an open-minded attitude towards new ideas and developments.						
13						Х	
4.4	To relate the knowledge gained through education to the cultural and historical characteristics of the						
14	society.		Х				

Scale for contribution to a qualification: 0-none, 1-little, 2-moderate, 3-considerable, 4-highest