



Course Specifications

Course Title:	Environmental Economics
Course Code:	ENS 333
Program:	Environmental Sciences and Technology
Department:	Environmental Sciences
College:	Faculty of Meteorology, Environment and Arid Land Agriculture
Institution:	

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A. Course Identification

1. Credit hours: 3			
2. Course type			
a.	University <input type="checkbox"/>	College <input type="checkbox"/>	Department <input checked="" type="checkbox"/>
b.	Required <input type="checkbox"/>	Elective <input checked="" type="checkbox"/>	Others <input type="checkbox"/>
3. Level/year at which this course is offered: 5 th Level / 3 rd year			
4. Pre-requisites for this course (if any): ENS100			
5. Co-requisites for this course (if any):			

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	20	47%
2	Blended	12	28%
3	E-learning	10	25%
4	Correspondence		
5	Other		

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	42
2	Laboratory/Studio	
3	Tutorial	
4	Others (specify)	
	Total	42
Other Learning Hours*		
1	Study	21
2	Assignments	14
3	Library	
4	Projects/Research Essays/Theses	5
5	Others (specify)	
	Total	40

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

This course aims to identify the reciprocal relationship between economics and environment.

2. Course Main Objective

By the end of this course it is expected that student will be able to:

- Summarize reciprocal relationship between the economy and the environment
- Explain concept of growth and development from an economic perspective and their relationship to the concept of sustainable development
- Identify Economic tools and criteria for evaluating policies and programs to achieve environmental goals

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
1.1	describe the reciprocal relationship between the economy and the environment.	
1.2	Explain concept of growth and development from an economic perspective and their relationship to the concept of sustainable development.	
1.3	Define means to achieve environmental protection strategies.	
1.4	Recognize policies to mitigate or adopt to climate change.	
2	Skills :	
2.1	Identify Economic tools and criteria for evaluating policies and programs to achieve environmental goals.	
2.2	Recognize green economy	
3	Competence:	
3.1	Develop policy solutions for the environment	
3.2	Demonstrate an understanding of the importance of critical thinking and problem solving when approaching environmental problems	

C. Course Content

No	List of Topics	Contact Hours
1	Water quality concept	6
2	Water quality criteria and standards	8
3	Water treatment	10
4	Water quality monitoring	8
5	Water sampling and analysis	10
Total		

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
1.1	describe the reciprocal relationship	- Lectures and active	- In class short

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	between the economy and the environment.	discussion. - Explanation and examples	quizzes - Midterm and final exams
1.2	Explain concept of growth and development from an economic perspective and their relationship to the concept of sustainable development.	- Lectures and active discussion. - Explanation and examples	- In class short quizzes - Midterm and final exams
1.3	Define means to achieve environmental protection strategies.	- Lectures and active discussion. - Explanation and examples	In class short quizzes - Midterm and final exams -homework assignments
1.4	Recognize policies to mitigate or adopt to climate change.	- Lectures and active discussion. - Explanation and examples - reading assignments	In class short quizzes - Midterm and final exams -homework assignments
2.0	Skills		
2.1	Identify Economic tools and criteria for evaluating policies and programs to achieve environmental goals.	- Lectures and active discussion. - Explanation and examples - reading assignments -case studies	- In class short quizzes - Midterm and final exams -homework assignments
2.2	Recognize green economy	- Lectures and active discussion. - reading assignments -case studies	- In class short quizzes - Midterm and final exams -homework assignments
3.0	Competence		
3.1	Develop policy solutions for the environment	- Lectures and active discussion. - reading assignments -case studies	- Projects and Presentations - report writing
3.2	Demonstrate an understanding of the importance of critical thinking and problem solving when approaching environmental problems	- Lectures and active discussion. - reading assignments -case studies	- Projects and Presentations - report writing

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	In class short quizzes	Every other week	10%

#	Assessment task*	Week Due	Percentage of Total Assessment Score
2	Midterm	7 th	15%
3	Homework	2 nd , 6 th , 8 th , 10 th	10%
4	Oral presentations	12 th	10%
5	Reports	11 th	15%
6	Final exam	15 th	40%
7			
8			

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice : Office hours for the professor and teaching assistants will be announced every semester. 3 hours a week will be scheduled.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	Nawzad Abdel-Rahman Al-Hiti, Hassan Ibrahim Al-Muhannadi, Issa Jumaa Ibrahim - Introduction to Environmental Economics – Dar Almanahj for Publishing and Distribution, Amman-2010
Essential References Materials	Stephen Smith, Environmental Economics: A Very Short Introduction - Translated by: Engy Bandari Ahmed - , Dhia Waarad - Hindawi Foundation for Education and Culture - Cairo 2014
Electronic Materials	Class presentations and materials will be posted on the course website
Other Learning Materials	Ali Hatem Al-Quraishi, Introduction to Environmental Economy, Al-Furat Basin Press, Iraq, 2017

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classroom
Technology Resources (AV, data show, Smart Board, software, etc.)	Data show
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	Surveys
Quality of learning resources	Peer reviewer	Consultation
Extent of achievement of course learning outcomes	Program leaders	Exit exam results

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	April, 2021