

## **Natural Resource and Environmental Economics**

Department : **Natural Resource and Environmental Economics**

Course Time : 12.10 – 02.50 PM

Grade : 5<sup>th</sup> Semester (Odd Semester 2022/2023)

Credits : 3 (150 minutes/meeting, 16 meetings in 1 semester)

Instructor : 1. Prof. Dr. Endah Saptutyingsih, S.E., M.Si ([endahsaptuty@umy.ac.id](mailto:endahsaptuty@umy.ac.id))

2. Dr. Diah Setyawati Dewanti, S.E., M.Sc. ([ddewanti@umy.ac.id](mailto:ddewanti@umy.ac.id))

### **DESCRIPTION**

In this course, students learn about the economic concepts of natural resources and the environment, natural resources and analysis in developing countries, externalities, economic valuation concepts and calculations, revealed preferences, stated preferences, digital analysis applications so that they are able to explain, explain, draw and apply the eyes this lecture.

### **The Course Features**

#### **Students will be able to:**

- Students are able to diagnose about Willingness to pay vs willingness to accept
- Students are able to diagnose about Replacement Cost and Cost of Illness
- Students are able to diagnose Cost and Benefit Analysis (Natural Resources)
- Students are able to diagnose the Hedonic Price Method
- Students are able to diagnose the Travel Cost Method
- Students are able to diagnose the application of GIS in mapping environmental problems and natural resources.

#### **Reference :**

- Perman R, Ma Y, Common M, Maddison D, McGilvray J (2011) Natural Resource and Environmental Economics, 4th edn. Pearson Education.
- Bromley DW (ed) (1995) The Handbook of Environmental Economics. Blackwell Publishers, Oxford, UK and Cambridge, USA

## Assessment :

No.	Score components	Weight (%)
<b>Softskill</b>		<b>7</b>
<b>1</b>	<b>Attendance</b>	<b>: 2</b>
<b>2</b>	<b>Memorizing Surah Al-Qur'an</b>	<b>: 2</b>
<b>3</b>	<b>Discussion</b>	
	Discussion 01	: 1
	Discussion 02	: 1
	Discussion 03	: 1
<b>Hardskill</b>		<b>93</b>
<b>1</b>	<b>Competency test</b>	
	Competency test 1	: 14.5
	Competency test 2	: 14.5
	Competency test 3	: 14.5
	Competency test 4	: 14.5
<b>2.</b>	<b>Assignment</b>	
	Assignment 01	: 3.5
	Assignment 02	: 3.5
	Assignment 03	: 3.5
	Assignment 04	: 3.5
<b>3</b>	<b>Quiz</b>	
	Quiz 01	: 5
	Quiz 02	: 5
	Quiz 03	: 5
	Quiz 04	: 5

## Syllabus

Week	Session	Content
1	1	The Concept of Natural Resource and Environmental Economics and Sustainable Economy
2	2	Utilization of natural resources and environmental quality in developing countries
3	3	Positive externality vs negative externality
4	4	Market goods vs non-market good
5	5	Environmental valuation
6	6	Willingness to pay vs willingness to accept
7	7	Replacement Cost and Cost of Illness
8	8	Cost and Benefit Analysis (Natural Resources)
9	9	Hedonic Price Method
10	10	Travel Cost Method
11	11	Contingent Valuation Method