

Module Name	Environmental Economics
Module level, if applicable	
Code, if applicable	GEL 3309
Subtitle, if applicable	
Semester(s) in which the module	Fourth (4 <sup>th</sup> ) semester
Person responsible for the module	Dr. Rika Harini, M.P
Lecturer	1. Dr. Rika Harini, M.P 2. Dr. Sudrajat, M.P
Language	Bahasa Indonesia
Relation to curriculum	Elective
Type of teaching, contact hours	STAR ( <i>Student Teacher Aesthetic Role-Sharing</i> ) is an optimal combination between SCL ( <i>Student Centered Learning</i> ) and TCL ( <i>Teacher Centered Learning</i> ). Lecture: 1400 minutes
Workload	Lecturer, including homework and discussion = 14 meetings x 100 minutes each Examination = 2 meetings x 100 minutes each Total workload = 1600 minutes
Credit points	2
Requirements according to the examination regulations	Must attended lecture for more than 70%
Recommended prerequisites	-
Module objectives/intended learning outcomes	<ol style="list-style-type: none"> <li>1. After following The Concept of Environmental Economics, students are able to: explain concept economic, environment, environmental economics, material equilibrium, cost benefit analysis, and environmental protection</li> <li>2. After following Basic Theory of Environmental Economics students are able to: explain production theory, consumption theory, and welfare theory</li> <li>3. After following Economic Overview Toward Environmental Problem students are able to: explain cost information, transaction, market failure function, cost benefit analysis case toward government expenditure</li> <li>4. After following Historical Development of Environmental Economics students are able to: explain early economic paradigm, environmental paradigm, post war economic and rice environmentalism, institutional economic paradigm, market model of environmental management, policy analysis (fixed standard versus cost benefit framework), economic value, environmental value, sustainable economic growth, and sustainable development</li> <li>5. After following Economic Natural Resources, students are able to: explain growth curve, rate of exploitation, preservation value, cost and revenue</li> </ol>

	<ol style="list-style-type: none"> <li>6. After following Environmnet and Development Countries, students are able to: explain dependent on natural resources, interconnection resource, economic cost of resource, economic incentive, and natural resource management policy</li> <li>7. After following Circular Economy students are able to: explain narrow and holistic views of environmental and economic; explain environmental economic interaction, circular economic and existence theorems</li> <li>8. After following Measuring Environmental Damage I (Total Economic Value), students are able to: explain meaning of valuation, use of economic valuation, cost, benefit, willingness to pay, willingness to accept, total economic value, option value, existence value, and empirical of option and existence value</li> <li>9. After following Measuring Environmental Damage II (Valuation Methodology), students are able to: explain total economic value, decision making, direct-indirect valuation, hedonic price approach, contingent value approach, and willingness to pay versus willingness to accept</li> <li>10. After following Optimal Level Pollution, students are able to: explain pollution as externality, optimal externality, alternative definition of pollution, types of externality and who are the pollution</li> <li>11. After following Environmental Standard, Taxes and Subsidies, students are able to: explain inefficiency of standard-setting, taxes versus standards, and pollution reduction subsidies</li> </ol>
Content	<ol style="list-style-type: none"> <li>1. The Concept of Environmental Economics</li> <li>2. Basic Theory of Environmental Economics</li> <li>3. Economic Overview Toward Environmental Problem</li> <li>4. Historical Development of Environmental Economics</li> <li>5. Economic Natural Resources</li> <li>6. Environmnet and Development Countries</li> <li>7. Circular Economy</li> <li>8. Measuring Environmental Damage I (Total Economic Value)</li> <li>9. Measuring Environmental Damage II (Valuation Methodology)</li> <li>10. Optimal Level Pollution</li> <li>11. Environmental Standard, Taxes and Subsidies</li> </ol>
Study and examination requirements and forms of examination	Quiz (10%), Homework (10 %), mid semester examination (30%), and final semester examination (50 %). Examination formed in written test.
Media employed	- Internet

	<ul style="list-style-type: none"> <li>- Computers</li> <li>- Interactive video</li> <li>- LCD projector</li> </ul>
Reading list	<p>Reksohadiprodjo, Sukanto. 2000. <i>Ekonomi Lingkungan (Suatu Pengantar)</i>. BPFE, Yogyakarta.</p> <p>Suparmoko, 1997, <i>Ekonomi Sumberdaya Alam dan Lingkungan</i>, BPFE, Yogyakarta.</p>