

Module Name	Environmental Economics Practicum
Module level, if applicable	
Code, if applicable	GEL 0309
Subtitle, if applicable	
Semester(s) in which the module	Fifth (5 th) semester
Person responsible for the module	Muhammad Arif Fahrudin Alfana, M.Sc
Lecturer	Muhammad Arif Fahrudin Alfana, M.Sc
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>). Assistance : 900 minutes
Workload	Assistance, including homework and discussion = 9 meetings x 100 minutes each Examination = 1 meetings x 100 minutes each Total workload = 1.000 minutes
Credit points	1
Requirements according to the examination regulations	All of practicum reports are binding. Absence requirement is only for 2 meetings Absence student must follow and catch up the practicum with the assistance in another schedule, also pay for it (Rp. 50.000)
Recommended prerequisites	-
Module objectives/intended learning outcomes	<ol style="list-style-type: none"> 1. After following Economic Measurement of Natural Resources Rarity, students are able to: make economic measurement of the scarcity of natural resources through price of natural resources goods and production cost 2. After following Cost Analysis and Benefit Analysis of Natural Resources, students are able to: analyze the cost and benefit of natural resources through calculating, knowing economic benefits of a resource extraction, and knowing the age of project on a resource by looking at the magnitude of cost benefits in different years to project economically feasible to do 3. After following Cost Benefit Analysis, students are able to: calculate and analyze cost benefit analysis from an environmental project through valuation, identification cost benefit of an environment project, and determine an environmental project whether the project is beneficial to community 4. After following Effect Analysis of Production Waste and Consumption on Environment students are able to: knowing that production and consumption activities can cause pollution due to waste; estimate the amount of waste occurring as result of the production and consumption process

	<ol style="list-style-type: none"> 5. After following Assessment of Development Impact on the Environment students are able to: find out various approaches that can be used to calculate the environmental impacts of development; calculating amount of losses caused by development on the environment with several approaches; analyze result of calculation of impact of development to environment 6. After following Valuation of Total Economic Value, students are able to: calculating the valuation of total economic generated from management of natural resources and environment through recognize various economic valuation methods 7. After following Tax on Taking and Utilization Groundwater, students are able to: calculating and analyze tax on taking and utilization groundwater on a project 8. After following Measuring Economic Values of Opak River Utilization for Agriculture and Fisheries, students are able to: knowing economic valuation and impact of Opak River utilization for agriculture and fisheries 9. After following, Field Practicum: Thematic, students are able to: collecting, process, analyze and interpret data from environmental economic themes that occur in field; to carry out research o environmental economic theme using geographic approach and geospatial technology
Content	<ol style="list-style-type: none"> 1. Economic measurement of natural resources rarity 2. Cost analysis and benefit analysis of natural resources 3. Cost benefit analysis 4. Analysis of effect production waste and consumption on environment 5. Assessment of development impact on the environment 6. Valuation of total economic value 7. Tax on taking and utilization groundwater 8. Measuring economic values of Opak River utilization for agriculture and fisheries 9. Field practicum : thematic
Study and examination requirements and forms of examination	Pretest/Quiz (10%), Individual Assignment (10 %), Practical Activities (20%), Practicum Report (30%) and Final Examination/Responsiveness (30 %). Examination formed in written test or interview.
Media employed	<ul style="list-style-type: none"> - Internet - Computers - Interactive video - LCD projector

Reading list	<p>Allan Randall. 1987. Resource Economics. An Economic Approach to Natural Resource and Environmental Policy. The Ohio State University</p> <p>Department of Environmental Affairs and Tourism (DEAT). 2004. Cost Benefit Analysis, Integrated Environmental Management, Information Series 8, Department of Environmental Affairs and Tourism (DEAT), Pretoria South Africa.</p> <p>Dunn, William N. 2003. Pengantar Analisis Kebijakan Publik (terjemahan). Yogyakarta : UGM Press.</p> <p>Dumairy. 2004. Perekonomian Indonesia. Cetakan kelima. Jakarta: Penerbit Erlangga</p> <p>Fauzi, Akhmad. 2006. Ekonomi Sumberdaya Alam dan Lingkungan: Teori dan Aplikasi. Gramedia Pustaka Utama. Jakarta</p> <p>Grafton, R.Q., Adamovioz, W., Dupont, D., Nelson, H., Hill, R. J., and Renzetti, S., 2004. Economics of the Environment and Natural Resources. Oxford: Black well Publishing.</p> <p>Maynard M. Hufscmidt, Davi, Anton, Blair, John A Dixon, 1996. Lingkungan Sistem Alami dan Pembangunan. Pedoman Penilaian Ekonomis. Gadjah Mada University Press.</p> <p>Munasinghe, M. 1993. Environmental Economics and Sustainable Development. World Bank Environment Paper Number 3. The World Bank. Washington D.C.</p> <p>Perkins, F., 1994. Practical Cost Benefit Analysis: Basic Concepts and Applications. Melbourne: MacMillan Education Australia Pty Ltd.</p> <p>Suparmoko, 1997. Ekonomi Sumberdaya Alam dan Lingkungan. BPFE. Yogyakarta</p> <p>Pearce, David W. 2008. "Cost- Benefit Analysis" dalam Kuper, Adam, Jessica Kuper. 2008. Ensiklopedi Ilmu-Ilmu Sosial. Jakarta: Rajawali.</p> <p>Sukanto, R, 1997. Ekonomi Lingkungan Suatu Pengantar, BPFE. Yogyakarta</p> <p>Suparmoko, M. dan Ratnaningsih, M. 2012. Ekonomi Lingkungan. BPFE. Yogyakarta</p>
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