

2. Environmental Geophysics

		2. Livitotimental Geophysics			
Module Name	:	Environmental Geophysics			
Module Level	:	Bachelor			
Code, if applicable	:	23H06121502			
Subtitle, if applicable	:	-			
Courses, if applicable	:	Environmental Geophysics			
Semester(s) in which the module is taught	:	III (Third Semester)			
Module coordinator(s)	:	Dr. Sakka, M.Si.			
Lecturer(s)	:	Dr. Sakka, M.Si. and Makhrani, S.Si., M.Si.			
Language	:	Bahasa (Indonesian language)			
Relation to curriculum	:	Elective course in the second year for Bachelor Degree in Geophysics			
Type of teaching, contact hours	:	This course is delivered through Lectures (i.e., Project/Case-based learning), complemented by structured assignments (paper review, project/case evaluation) and independent study. Contact hours consist of 100 minutes lectures per week, plus 120 minutes per week for each of the following: structured assignments and independent study			
Workload	:	Total workload is 90 hours per semester, consisting of 28 hours for lectures, and 31 hours each for structured assignments and independent study			
Credit points	:	2 SKS (3.2 ECTS)			
Requirements according to the examination regulations	:	Students are eligible to attend the examination if their absences are less than 20% of the lectures			
Recommended prerequisites	:	-			
Module objectives/intended learning outcomes	:	After completion of this module, students will be able to: CLO 1. Students analyze the relationship between human interaction and environmental quality; CLO 2. Students analyze the interaction of human life with abiotic, biotic and cultural environmental components; The following is the mapping of the ILO and the CLO of this course: ILO 7 ILO 8 ILO 13			



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			CLO 1	✓				
			CLO 2		√	✓		
Content	: 1. Environmental Ethics							
		2. Ec	ology					
		Ecological Functions of Protected Forests and Conservation Areas						
		4. Ur	ban Ecosyste	ms				
		5. Characteristics of Coastal Environments						
		6. En	vironmental G	Geology				
		7. En	vironmental N	/lanagem	ent and Ir	mpact		
Study and examination requirements	Participants are marked based on their performance in the Project/Case Study (100%). Students are marked based on their percentage of points obtained and based on the following grade scale:					·		
			Percentag Achievem	(Grade	Conversi Value	io	
			85 – 10)	А	4.00		
			80 - <85	5	A-	3.75		
			75 - < 8	0	B+	3.5		
			70 - < 7	5	В	3.0		
			65 - < 7	0	B-	2.75		
			60 - < 6	5	C+	2.5		
			50 - < 6	0	С	2.00		
			40 - < 5	0	D	1.00		
			< 40		E	0.00		
Exams and assessment formats		Assessment in this course is conducted entirely through project/case studies. The project or case study is conducted in a group and requires students to apply theoretical concepts to analyze and solve a problem. This work is developed over several weeks under instructor guidance, culminating in a written report and an oral presentation of results.						



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Reading list	1. M	ain References:
	1.	1. A. Tresna Sastrawijaya, (2000), Pencemaran Lingkungan, Rineka Cipta.
	2.	Djajadiningrat S. T., (1997), Pengantar Ekonomi Lingkungan, Jakarta, LP3ES.
	3.	P.L. Coutrier, (1990), Environmental Management System with ISO 14000, Seminar ISO 14000, Surabaya.
	Ad	dditional References:
	1.	Wisnu Arya Wardhana, (2001) Dampak Pencemaran Lingkungan, Edisi 3, Andi,.
	2.	Anderson H. Stanley, Ronald E.B. & Waltow, (1993), Environmental Science, New York: Mc.Millan Publishing Company
	3.	Miller G.Y., (2000), Living in the Environment, Principles, connection & Solution, 9th edition, California: Wadsworth Publishing Company.
	4.	Soemarwoto,O., (1985), Ekologi Lingkungan Hidup dan Pembangunan, Jakarta: Penerbit Djambatan.
Last revision date	Ju	lly 1 st , 2025