

## 19. Tectonics of Indonesia

Module Name	:	Tectonics of Indonesia					
Module Level	:	Bachelor					
Code, if applicable	:	23H06131002					
Subtitle, if applicable	:	1-					
Courses, if applicable	:	Geophysics					
Semester(s) in which the module is taught	:	V (Fifth Semester)					
Module coordinator(s)	:	Prof. Dr. Ir. Muh. Altin Massinai, MT., Surv.					
Lecturer(s)	:	Prof. Dr. Ir. Muh. Altin Massinai, MT., Surv.					
		Makhrani, S.Si. M.Si					
Language	:	Bahasa (Indonesian language)					
Relation to curriculum	:	Elective courses in the third 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 are able to analyze tectonic phenomena by interpreting surface deformation;					
		CLO 2. Students are able to analyze tectonic processes in Indonesia using geophysical modeling;					
		The following is the mapping of the ILO and the CLO of this course:					



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					ILO 4	ILO 7	ILO 12	ILO 13
				CLO 1	✓	✓		
				CLO 2			<b>√</b>	<b>√</b>
Content	:	1.	Pla	ate Tector	nics			
		2.	Te	ctonostra	tigraphy			
		3.	Ne	eogene O	rogeny in	Indonesi	а	
		4.	Mi	crocontin	ents in In	donesia		
		5.	Ec	conomic A	spects of	Microcor	ntinents	
Study and examination requirements		Proje Exan	ct / ninat	Case Studion (10% are mark	dy (60%), ). ed based	Assignm on their	eir perforn ents (30% percentag grade sca	6), Writte
				Percen Achiev		Grade	Convo	ersion
				85 – 10	0	A	4.00	
				80 - <8	5	A-	3.75	
				75 - < 8	80	B+	3.5	
				70 - < 7	'5	В	3.0	
				65 - < 7	<b>'</b> 0	B-	2.75	
				60 - < 6	55	C+	2.5	
				50 - < 6	0	С	2.00	
				40 - < 5	0	D	1.00	
				< 40		E	0.00	
						•		
Exams and assessment formats		assig is cor apply prese	nme nduc the ente	ents, and cted in a g oretical co d in the fo	written ex group or ir oncepts to orm of a w	kamination ndividually o analyze vritten rep	f a projection. The property and requestion of the solve ort. Assigned the problem of the solve ort. Assigned the problem of t	oject or ca uires stud e a proble nments a



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		data processing, or short essays; these are submitted in written form and may involve graphical or computational outputs. The written examination ( <i>closed-book</i> , written) evaluates students' understanding of fundamental concepts covered by CLO 1 and CLO 2.
Reading list	1.	Main References:
		<ol> <li>Hamilton, Warren. 1979. Tectonics of the Indonesian Region. Washington: Geological Survey Profesional Paper 1078. 345 p.</li> </ol>
		<ol> <li>Hall, Robert (2003) Cenozoic Tectonics of Indonesia, Short Course of Indon. Petrol. Assoc. Annual Meeting, Jakarta, 183p.</li> </ol>
		3. Simandjuntak, TO (2004) Tektonika, Pusat Penelitian dan Pengembangan Geologi, Bandung, 216 p.
Last revision date		July 1 <sup>st</sup> , 2025