



Bachelor Program in Geophysics

Faculty of Mathematics and Natural Sciences
HASANUDDIN UNIVERSITY

26. Geomorphology

Module Name	:	Geomorphology
Module Level	:	Bachelor
Code, if applicable	:	23H06131703
Subtitle, if applicable	:	-
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. - Muhammad Fawzy Ismullah Massinai, S.Si., M.T. - Andi Muhammad Pramadie, S.T., M.Eng., Ph.D
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 150 minutes lectures per week, plus 180 minutes per week for each of the following: structured assignments and independent study
Workload	:	Total workload is 135 hours per semester, consisting of 38 hours for lectures, and 48.5 hours each for structured assignments and independent study
Credit points	:	3 SKS (4.8 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 and skilled in analyzing geomorphological concepts and applying them to other related fields;



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		CLO 2. Students are able to apply geophysical principles to communicate with the general public about natural phenomena related to geomorphology; The following is the mapping of the ILO and the CLO of this course: <table><tr><td></td><td>ILO 4</td><td>ILO 8</td><td>ILO 9</td></tr><tr><td>CLO 1</td><td></td><td>✓</td><td>✓</td></tr><tr><td>CLO 2</td><td>✓</td><td></td><td></td></tr></table>		ILO 4	ILO 8	ILO 9	CLO 1		✓	✓	CLO 2	✓																	
	ILO 4	ILO 8	ILO 9																										
CLO 1		✓	✓																										
CLO 2	✓																												
Content	:	1. Endogenic Processes in Geomorphological Deformation 2. Exogenic Processes in Geomorphological Deformation 3. Geomorphological Lineaments 4. Fluvial Geomorphology 5. Morphometric Parameters 6. Types of Landforms 7. Applied Geomorphology and Its Applications in Geophysical Investigations																											
Study and examination requirements		Participants are marked based on their performance in theory: Case Study (62.5%), Assignments (20%), Written Examination (17.5%). Students are marked based on their percentage of points obtained and based on the following grade scale: <table><tr><th>Percentage of Achievement</th><th>Grade</th><th>Conversion Value</th></tr><tr><td>85 – 100</td><td>A</td><td>4.00</td></tr><tr><td>80 - <85</td><td>A-</td><td>3.75</td></tr><tr><td>75 - < 80</td><td>B+</td><td>3.5</td></tr><tr><td>70 - < 75</td><td>B</td><td>3.0</td></tr><tr><td>65 - < 70</td><td>B-</td><td>2.75</td></tr><tr><td>60 - < 65</td><td>C+</td><td>2.5</td></tr><tr><td>50 - < 60</td><td>C</td><td>2.00</td></tr><tr><td>40 - < 50</td><td>D</td><td>1.00</td></tr></table>	Percentage of Achievement	Grade	Conversion Value	85 – 100	A	4.00	80 - <85	A-	3.75	75 - < 80	B+	3.5	70 - < 75	B	3.0	65 - < 70	B-	2.75	60 - < 65	C+	2.5	50 - < 60	C	2.00	40 - < 50	D	1.00
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85 – 100	A	4.00																											
80 - <85	A-	3.75																											
75 - < 80	B+	3.5																											
70 - < 75	B	3.0																											
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60 - < 65	C+	2.5																											
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40 - < 50	D	1.00																											



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		< 40	E	0.00
Exams and assessment formats		Assessment in this course consists of a project or case study, assignments, and written examination. The project or case study is conducted in a group or individually and requires students to apply theoretical concepts to analyze and solve a problem, presented in the form of a written report. Assignments are completed individually and may include problem-solving tasks, 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: - Huggett, Richard John. 2007. Fundamentals of Geomorphology. London: Routledge. 458p. - Massinai, Muhammad Altin. 2015. Geomorfologi Tektonik. Jogyakarta. Pustaka Ilmu Publishing. - Van Zuidam, R. A. 1983. Guide to Geomorphologic – aerial photographic interpretation and mapping. Enschede: Section of Geology and Geomorphology, ITC. - Verstappen, H. Th. 1983. Applied Geomorphology: Geomorphological Surveys for Environmental Development. New York: Elsevier Science Publishing Company Inc. 437p. Additional References: - Burbank, D.W., and Anderson, R.S. 2001. Tectonic Geomorphology. Massachusetts: Blackwell Science, Inc. 274 p. - Stewart, I. S & Hancock, P. L. 1994. Neotectonics. Dalam Hancock P.L. (Penyunting) Continental Deformation. P.370 - 409. London: Pergamon Press.		
Last revision date		July 1 st , 2025		