



Bachelor Program in Geophysics

Faculty of Mathematics and Natural Sciences

HASANUDDIN UNIVERSITY

27. Field Course

Module Name	:	Field Course
Module Level	:	Bachelor
Code, if applicable	:	23H06130502
Subtitle, if applicable	:	-
Courses, if applicable	:	Geophysics Study Program
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 Dr. Sakka, M.Si Sabrianto Aswad, S.Si., MT
Language	:	Bahasa (Indonesian language)
Relation to curriculum	:	Elective courses in the third year of the Bachelor of Geophysics program
Type of teaching, contact hours	:	This course is delivered through a combination of lectures and practical work within the framework of Case-based learning. The lectures, conducted in the first six weeks, consist of 100 minutes of face-to-face sessions per week, accompanied by approximately 120 minutes of the following: structured assignments and independent study. The practical work, conducted over the subsequent ten weeks, consists of 170 minutes of laboratory-based activities per week, emphasizing the application of theoretical concepts to real-world data and problem-solving.
Workload	:	Total workload is 90 hours per semester, consisting of 45 hours of practical/laboratory work and 45 hours allocated to the lecture phase in the first weeks, comprising ~14 hours of lectures, ~16 hours of structured assignments, and ~15 hours of 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	:	-



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Module objectives/intended learning outcomes	:	After completion of this module, students will be able to: CLO 1.Students are able to perform data acquisition using geophysical methods, process the data, and conduct data interpretation. CLO 2. Able to apply geophysical methods for various purposes. The following is the mapping of the ILO and the CLO of this course: <table><tr><td>a</td><td>ILO 8</td><td>ILO 9</td><td>ILO 12</td><td>ILO 14</td></tr><tr><td>CLO 1</td><td>✓</td><td>✓</td><td></td><td></td></tr><tr><td>CLO 2</td><td></td><td></td><td>✓</td><td>✓</td></tr></table>	a	ILO 8	ILO 9	ILO 12	ILO 14	CLO 1	✓	✓			CLO 2			✓	✓									
a	ILO 8	ILO 9	ILO 12	ILO 14																						
CLO 1	✓	✓																								
CLO 2			✓	✓																						
Content	:	1. Geoelectrical, geomagnetic, and seismic methods Mapping methods 2. Tidal, ocean wave, ocean current, and sedimentology methods 3. Weather and climate methods 4. Application of geophysical methods 5. Data processing and report preparation																								
Study and examination requirements	:	Participants are marked based on their performance in theory: Case Study (100%). 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></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
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50 - < 60	C	2.00																								



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			40 - < 50	D	1.00	
			< 40	E	0.00	
Exams and assessment formats		Assessment in this course is entirely case-study based. Students are provided with real or simulated cases related to the course topics, which they are required to analyze in depth. The case study tasks involve applying theoretical knowledge to practical problems of geophysical methods in a field, which they analyze in depth by processing and interpreting data, preparing a written report, and presenting their findings. The case studies are evaluated by the instructor and lecturer, with feedback given for revisions.				
Reading list		Main References: 1. Telford, WM (1990). Geofisika Terapan Edisi Kedua. Cambridge: Pers Universitas Cambridge				
Last revision date		July 1 st , 2025				