

23. Research Methodology

Module Name	:	Research Methodology			
Module Level	:	Bachelor			
Code, if applicable	:	23H06130102			
Subtitle, if applicable	:	-			
Courses, if applicable	:	Geophysics Study Program			
Semester(s) in which the module is taught	:	V (Fifth Semester)			
Module coordinator(s)	:	Dr. Eng. Amiruddin, S.Si., M.Si			
Lecturer(s)	:	Dr. Eng. Amiruddin, S.Si., M.Si			
		Drs. Erfan, M.S			
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 Lectures (i.e., 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	:	After completion of this module, students will be able to:			
learning outcomes		CLO 1. Able to prepare proposals and research reports equivalent to an undergraduate thesis.			
		CLO 2. Able to prepare manuscripts for international scientific journals to publish research findings.			



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Faculty of Mathematics and Natural Sciences
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		The following is the mapping of the ILO and the CLO of this course:								
			ILO 6	ILO 7	ILO 8	ILO 10	ILO 13	ILO 14		
		CLO 1	√	√						
		CLO2			✓	✓	√	✓		
Content	:	1.		ot and ope			(What you	u want to		
		2.	s (What d future p	redicted						
		3.	ised and t neasurem							
		4.	Creatin	g definitio	ons					
		5. Types of definitions								
		Proposition/hypothesis (A temporary statement regarding the formulated research problem)								
		7. Theory construction (A theory consists of several hypotheses that have been tested for validity)								
		8. Writing a research proposal								
Study and examination requirements		Participants are marked based on their performance in theory:Case Study (75%), Written Examination (25%). Students are marked based on their percentage of points obtained and based on the following grade scale:								
				ntage of vement	Grade	7	ersion alue			
			85 -	- 100	А	4	.00			
			80	- <85	A-	3	.75			
			75 -	- < 80	B+		3.5			
			70 -	- < 75	В		3.0			
			65 -	- < 70	B-	2	.75			
			60 -	- < 65	C+	2	2.5			



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Faculty of Mathematics and Natural Sciences
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		50 - < 60	С	2.00					
		40 - < 50	D	1.00					
		< 40	E	0.00					
				I	1				
Exams and assessment formats	examina requires make a report. T students	Assessment in this course consists of case study, and written examination. The case study is conducted individually and requires students to apply theoretical concepts to analyze and make a research proposal, presented in the form of a written report. The written examination (<i>closed-book</i> , written) evaluates students' understanding of fundamental concepts covered by CLO 1 and CLO 2.							
Reading list	Main Re	Main References:							
		 Kothari, CR, 2004, Metodologi Penelitian: Metode dan Teknik, Edisi Revisi Kedua, Penerbit Internasional New Age 							
		Siyoto S. & Sodik A., 2015, Dasar Metodologi Penelitian, Literasi Media Publishing, Yogyakarta							
	Additional References:								
		Hadani , Auliya N., Ar Jtami E., Sukmana D Metode PenelitianKua Imu. "	., & Istiqor	mah R., 2020, Bi	uku				
Last revision date	July 1st,	2025							