

SEMESTER COURSE PLAN

**FINAL EXAM COURSES
(23H06140504)**



TEACHING TEAM

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STUDI PROGRAM OF GEOPHYSICS - S1
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
HASANUDDIN UNIVERSITY
MAKASSAR
2025

**STUDY PROGRAM OF GEOFISIKA - S1
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
HASANUDDIN UNIVERSITY**

Vision

Become a program Reliable studies in the field of geophysics to produce superior graduates and mastering science, technology, arts and culture based on BMI in 2030.

Vision Strategy

Mission

Based on the Vision above, the Geophysics Study Program has a mission:

1. Improving the quality of education to produce graduates who are competitive, able to work independently and in groups in implementing and developing BMI science and technology;
2. Carrying out research to produce reliable and competitive scientific work oriented towards the scientific development of solid geophysics, marine geophysics, geoinformatics and hydro-meteorology;
3. Disseminate the results of applied research, action studies and appropriate technology packages in synergistic and accelerated productive activities to improve the quality of life of the community.

Graduate Profiles

Educators in the Field of Geophysics; meteorologist; geomaths; oceanographer; exploration geophysicist; seismologist ; geophysical entrepreneur.

PLO charged to courses

- CPL-8 (KU1) - Able to apply logical, critical, systematic and innovative thinking in developing or applying geophysical science by considering human values, and able to analyze and communicate case studies and research results using geophysical tools through scientific reports, international presentations and article publications, as well as uploading them on the university website.
- CPL-9 (KU2) - Able to demonstrate independent, quality and measurable performance in maintaining professional collaboration with supervisors and colleagues at national and international levels, as well as completing tasks responsibly using relevant modern geophysical tools
- CPL-10 (KU3) - Able to make the right decisions in solving problems, verifying information, and analyzing data in the field of applied geophysics—especially in land use studies and environmental studies—by using modern geophysical analysis and computing tools based on the results of information and data analysis, to carry out the process of evaluating, documenting, and rediscovering data to ensure validity and prevent plagiarism

Course Learning Outcomes (CLO)

- CPMK-1: Students are able to use geophysical concepts that have been studied in previous courses as solutions to earth issues that are developing in society from a geophysical point of view. (CPL8)
- CPMK-2: Students have self-confidence, good ethics, and good performance in oral and written communication (CPL9)
- CPMK-3: Students are able to write scientific research reports and scientific presentations (CPL10)

Sub-CLO

- Sub CPMK-1: Students are able to convey original and innovative new ideas about the application of geophysical concepts to earth issues in society (CPMK-1)

Sub CPMK-2: Students are able to conduct research and write research reports based on applicable scientific principles with the direction of the Advisory Team (CPMK-2)

Sub CPMK-3: Students are able to communicate the results of their thesis research through writing on the results draft and orally through research results seminars (CPMK-3)

Learning Analytics

Final exam



Students are able to communicate the results of their thesis research through writing on the results draft and orally through research results seminars (CPMK-3)



Students are able to conduct research and write research reports based on applicable scientific principles with the direction of the Advisory Team (CPMK-2)



Students are able to convey original and innovative new ideas about the application of geophysical concepts to earth issues in society (CPMK-1)



Have passed the course Results Seminar



HASANUDDIN UNIVERSITY
FAKULTY OF MATHEMATICS AND NATURAL SCIENCES
STUDY PROGRAM OF GEOPHYSICS - S1
SEMESTER LEARNING PLAN

Course		Code	Course Group	Credits	SEMESTER	Compilation Date
Final exam		23H06140504	Study Program Compulsory Courses	4	8	1 Juli 2025
AUTHORITY		SLP Developer Lecturer		Coordinator		Head of Study Program
		Muhammad Fawzy Ismullah Massinai, S.Si, M.T		Dr. Muhammad Alimuddin, Eng.		Dr. Muhammad Alimuddin, Eng.
Learning Outcomes Course	SLOs that are imposed on the course					
	SLO-8:	Mampu menerapkan pemikiran logis, kritis, sistematis, dan inovatif dalam mengembangkan atau menerapkan ilmu geofisika dengan mempertimbangkan nilai-nilai kemanusiaan, serta mampu menganalisis dan mengkomunikasikan studi kasus dan hasil penelitian menggunakan perangkat geofisika melalui laporan ilmiah, presentasi internasional, dan publikasi artikel, serta mengunggahnya pada laman universitas.				
	SLO-9:	Mampu menunjukkan kinerja yang mandiri, berkualitas, dan terukur dalam menjaga kolaborasi profesional dengan pembimbing dan rekan kerja di tingkat nasional maupun internasional, serta menyelesaikan tugas secara bertanggung jawab dengan menggunakan perangkat geofisika modern yang relevan				
	SLO-10:	Mampu mengambil keputusan yang tepat dalam memecahkan masalah, memverifikasi informasi, dan menganalisis data pada bidang geofisika terapan—khususnya dalam kajian tata guna lahan dan studi lingkungan—dengan menggunakan perangkat analisis dan komputasi geofisika modern berdasarkan hasil analisis informasi dan data, untuk melaksanakan proses evaluasi, pendokumentasian, serta penemuan kembali data guna menjamin validitas dan mencegah plagiasi				
	SLO ⇒ Course Learning Outcomes					
	After completing this course, it is expected:					
	SLO-8	CLO-1: Students are able to use geophysical concepts that have been studied in previous courses as solutions to earth issues that are developing in society from a geophysical point of view.				
	SLO-9	CLO-2: Students have self-confidence, good ethics, and good performance in oral and written communication				
	SLO-10	CLO-3: Students are able to write scientific research reports and scientific presentations				
	CLO ⇒ Sub-CLO					
	CLO-1	Sub-CLO-1:Students are able to convey original and innovative new ideas about the application of geophysical concepts to earth issues in society				
	CLO-2	Sub-CLO-2:Students are able to conduct research and write research reports based on applicable scientific principles with the direction of the Advisory Team				
	CLO-3	Sub-CLO-3:Students are able to communicate the results of their thesis research through writing on the results draft and orally through research results seminars				

		Correlation between SLOs/CLOs to Sub-CLOs							
SLOs that are charged on the Course	CPMK	SUB CPMK	Form of Assessment*			Weight	Value	Student Score	
			Formative		Sumative				
					Project/Case Study				
SLO-8	CLO-1	SUB-CLO-1	Structured independent and team research under the guidance of the Advisory Team			100	100		
						100	100		
Course Description		Gagal diterjemahkan							
Learning Materials/Subjects		Gagal diterjemahkan							
Reference		Main References							
		Gagal diterjemahkan							
		Additional References							
		-							
Teaching Team		Dr. Muhammad Alimuddin, Eng.							
Course requirement		Results Seminar							
Week	Sub CPMK (End-of-stage learning ability)		Penilaian (Assesment)		Learning Forms and Methods [time estimate]		Content		Weight of Assessment (%)
			Indicator	Techniques & Criteria	Offline	Online			
1	2		3	4	5	6	7		8

1-16	Students are able to convey original and innovative new ideas about the application of geophysical concepts to earth issues in society (CPMK-1)	Formative: Gagal diterjemahkan Sumative: -	Formative Criteria: Structured independent and team research under the guidance of the Advisory Team Sumative Criteria: Project/Case Study (100) Assessment Technique: Non Test	Research, Design, or Development: Project-Based Learning (Project-based Learning) Gagal diterjemahkan TM [16 x 2 x 50']		Gagal diterjemahkan	100
							100

Matrix of SLO, CLO, and Assessment Method

SLO / CLO	CLO-1	CLO-2	CLO-3
CPL-8 (KU1)	Project/Case Study (Weight 100%)		
CPL-9 (KU2)			
CPL-10 (KU3)			

Evaluation Type and Assessment Weight

Type	Assessment Weight
Project/Case Study	100
Total	100

Assessment and Evaluation of Student Achievement of CLOs

SLOs that are charged on the Course	CLO	SUB CLO	Form of Assessment*		Weight	Value	Student Score
			Formative	Sumative			
				Project/Case Study			
SLO-8	CLO-1	SUB-CLO-1	Structured independent and team research under the guidance of the Advisory Team	100	100		
				100	100		

