

SEMESTER COURSE PLAN

STRUCTURAL GEOLOGY (P1) COURSES (23H06131103)



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-4 (P1) - Mastering theoretical concepts of land, sea and geophysics atmosphere, principles of exploration, and design exploration necessary for identification and mapping natural resources and natural disaster mitigation;
- 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-14 (KK4) - Able to investigate potential natural resources and utilize appropriate information and computing technology-based instruments to carry out natural resource exploration and natural disaster mitigation activities

Course Learning Outcomes (CLO)

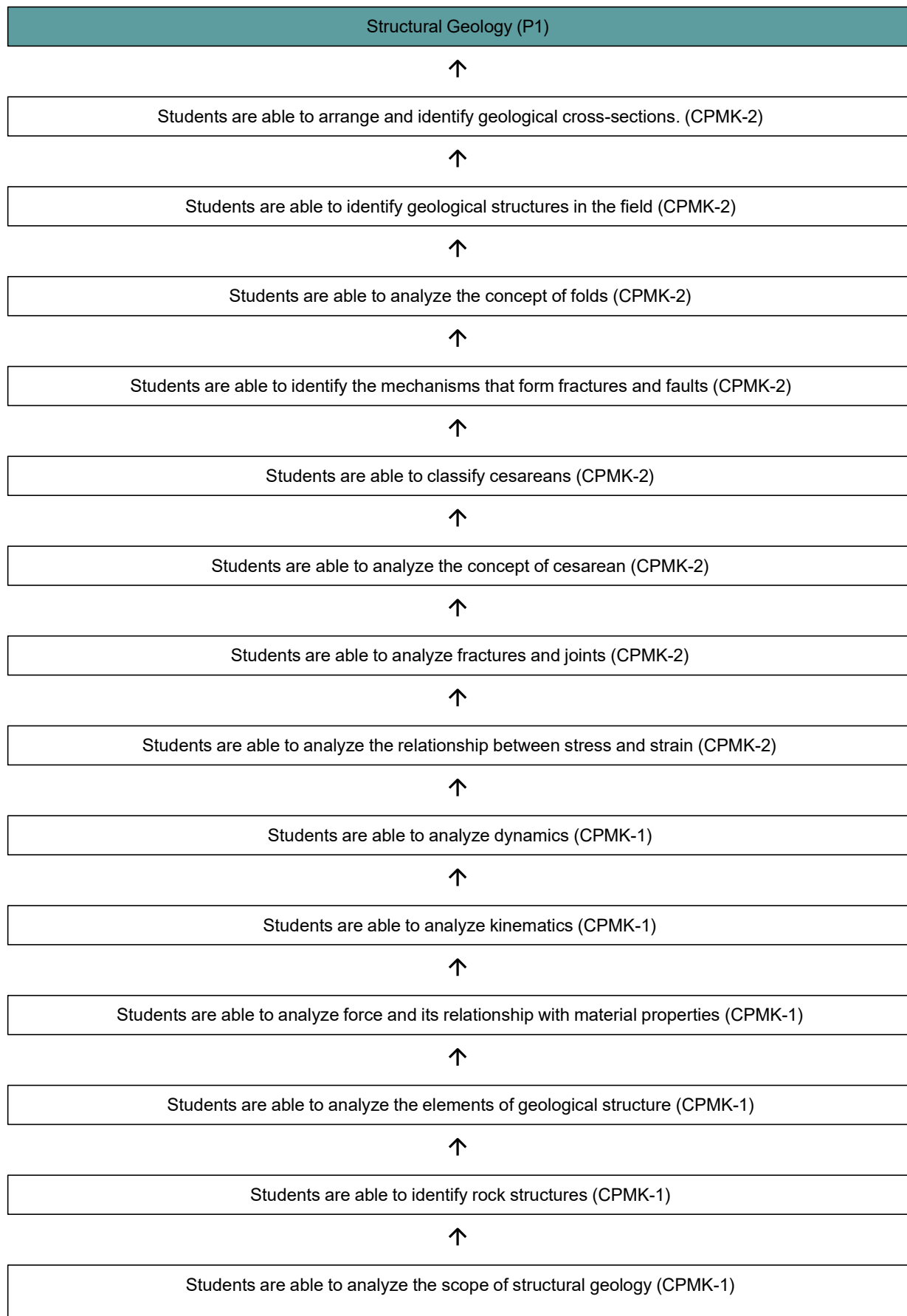
- CPMK-1: Students are able to analyze the bending of the earth that causes it and what the consequences are regarding the shape and framework of rocks and the symptoms that cause it. (CPL4 dan CPL8)
- CPMK-2: Students are able to use basic geological principles to communicate with the wider community in conveying geological phenomena related to geological structures (CPL9 dan CPL14)

Sub-CLO

- Sub CPMK-1: Students are able to analyze the scope of structural geology (CPMK-1)
- Sub CPMK-2: Students are able to identify rock structures (CPMK-1)

- Sub CPMK-3: Students are able to analyze the elements of geological structure (CPMK-1)
- Sub CPMK-4: Students are able to analyze force and its relationship with material properties (CPMK-1)
- Sub CPMK-5: Students are able to analyze kinematics (CPMK-1)
- Sub CPMK-6: Students are able to analyze dynamics (CPMK-1)
- Sub CPMK-7: Students are able to analyze the relationship between stress and strain (CPMK-2)
- Sub CPMK-8: Students are able to analyze fractures and joints (CPMK-2)
- Sub CPMK-9: Students are able to analyze the concept of cesarean (CPMK-2)
- Sub CPMK-10: Students are able to classify cesareans (CPMK-2)
- Sub CPMK-11: Students are able to identify the mechanisms that form fractures and faults (CPMK-2)
- Sub CPMK-12: Students are able to analyze the concept of folds (CPMK-2)
- Sub CPMK-13: Students are able to identify geological structures in the field (CPMK-2)
- Sub CPMK-14: Students are able to arrange and identify geological cross-sections. (CPMK-2)

Learning Analytics





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

Course		Code	Course Group	Credits	SEMESTER	Compilation Date
Structural Geology (P1)		23H06131103		3	5	16 Juni 2023
AUTHORITY		SLP Developer Lecturer	Coordinator		Head of Study Program	
		Prof. Dr. Ir. Muh. Altin Massinai, MT., Surv., Muhammad Fawzy Ismullah Massinai, S.Si, M.T	Prof. Dr. Ir. Muh. Altin Massinai, MT., Surv.		Dr. Muhammad Alimuddin, Eng.	
Learning Outcomes	SLOs that are imposed on the course					
	SLO-4:	Menguasai konsep teoritis Geofisika darat, laut dan atmosfer, prinsip-prinsip eksplorasi, dan perancangan eksplorasi yang diperlukan untuk identifikasi dan pemetaan SDA serta mitigasi bencana alam;				
	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-14:	Mampu menyelidiki potensial sumberdaya alam dan memanfaatkan instrumen yang berbasis teknologi informasi dan komputasi yang sesuai untuk melakukan aktivitas eksplorasi SDA dan Mitigasi Bencana Alam				
	SLO ⇒ Course Learning Outcomes					
	After completing this course, it is expected:					
	SLO-4	CLO-1: Students are able to analyze the bending of the earth that causes it and what the consequences are regarding the shape and framework of rocks and the symptoms that cause it.				
	SLO-8	CLO-1: Students are able to analyze the bending of the earth that causes it and what the consequences are regarding the shape and framework of rocks and the symptoms that cause it.				
	SLO-9	CLO-2: Students are able to use basic geological principles to communicate with the wider community in conveying geological phenomena related to geological structures				
	SLO-14	CLO-2: Students are able to use basic geological principles to communicate with the wider community in conveying geological phenomena related to geological structures				
	CLO ⇒ Sub-CLO					

Course	CLO-1	Sub-CLO-1: Students are able to analyze the scope of structural geology
		Sub-CLO-2: Students are able to identify rock structures
		Sub-CLO-3: Students are able to analyze the elements of geological structure
		Sub-CLO-4: Students are able to analyze force and its relationship with material properties
		Sub-CLO-5: Students are able to analyze kinematics
		Sub-CLO-6: Students are able to analyze dynamics
	CLO-2	Sub-CLO-7: Students are able to analyze the relationship between stress and strain
		Sub-CLO-8: Students are able to analyze fractures and joints
		Sub-CLO-9: Students are able to analyze the concept of cesarean
		Sub-CLO-10: Students are able to classify cesareans
		Sub-CLO-11: Students are able to identify the mechanisms that form fractures and faults
		Sub-CLO-12: Students are able to analyze the concept of folds
		Sub-CLO-13: Students are able to identify geological structures in the field
		Sub-CLO-14: Students are able to arrange and identify geological cross-sections.
	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	Practicum			
SLO-8	CLO-1	SUB-CLO-1	Participation	5	0	5		
SLO-8	CLO-1	SUB-CLO-2	Participation	5	0	5		
SLO-8	CLO-1	SUB-CLO-3	Participation	5	0	5		
SLO-8	CLO-1	SUB-CLO-4	Participation	5	0	5		
SLO-8	CLO-1	SUB-CLO-5	Participation	5	0	5		
SLO-8	CLO-1	SUB-CLO-6	Participation	5	0	5		
SLO-14	CLO-2	SUB-CLO-7	Participation	5	0	5		
SLO-14	CLO-2	SUB-CLO-8	Participation	5	0	5		

SLOs that are charged on the Course	CPMK	SUB CPMK	Form of Assessment*			Weight	Value	Student Score
			Formative	Sumative				
				Project/Case Study	Practicum			
SLO-14	CLO-2	SUB-CLO-9	Participation	10	0	10		
SLO-14	CLO-2	SUB-CLO-10	Participation	10	0	10		
SLO-14	CLO-2	SUB-CLO-11	Participation	10	0	10		
SLO-14	CLO-2	SUB-CLO-12	Participation	10	0	10		
SLO-14	CLO-2	SUB-CLO-13	Participation	0	15	15		
SLO-14	CLO-2	SUB-CLO-14	Participation	5	0	5		
				85	15	100		
Course Description	In this lecture, the meaning of structural geology and its relationship to other sciences, rock structure and primary and secondary structure are explained. Students learn about force, strain, stress with translation, rotation and dilation patterns. Then the next lecture explains the Mohr diagram, rock deformation, fractures, joints, faults and folds as well as the kink method in drawing cross-sections of structures (a field trip was held to study structural analysis in the field and structural analysis).							
Learning Materials/Subjects	1. Structural geology in life and its relationship with science other. 2. Deformation 3. Diagram Mohr 4. Geological structure: joints, faults, and crease 5. Kink Method, Cross-sectional restoration from field data							
Reference	Main References							
	1. Billing,M.P., 1986, Structural Geology, Third edition, Prentice-Hall of India. 2. Davis,J.H., 1984, Structural Geology of Rock and Region, John Wiley & Sons Inc, United States. 3. Ragan, D. M., 1973, Structural Geology: An Introduction to Geometrical Techniques, 2nd Edition, John Wiley & Sons Inc, New York- London- Sidney – Toronto. 4. Asikin Sukendar, 1979, Basics of Structural Geology, Department of Geological Engineering, Bandung Engineering Institute. 5. Hobbs, B.E., Means, W.D., and Williams, P.E., 1976, An Outline of Structural Geology, by John Wiley & Sons, Inc., Printed in Singapore.							
	Additional References							
	1. Massinai, Muhammad Altin, 2005, Tectonic Geomorphology, Jogyakarta Science Library. 2. Relevant published international journals of repute Last 5 years.							
Teaching Team	Prof. Dr. Ir. Muh. Altin Massinai, MT., Surv., Muhammad Fawzy Ismullah Massinai, S.Si, M.T							
Course requirement								

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	Students are able to analyze the scope of structural geology (CPMK-1)	Formative: Accuracy of application of structural geology scope concepts. Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (5) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 1 x 2 x 50`	Studying: Self-Directed Learning • Reading modules/ PPT • Watching Video 1 x 2 x 60`  <b>Studying:</b> Case Study (Case Study) • Create a resume and answer practice questions  1 x 2 x 60`	Material: scope of structural geology, understanding, application and utilization of structural geology in life, interrelationships or connections between structural geology with other knowledge Libraries: 1 – 5	5

2	Students are able to identify rock structures (CPMK-1)	Formative: Precision in connecting rock structural elements. Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (5) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 1 x 2 x 50`	Studying: Self-Directed Learning • Reading modules/ PPT • Watching Video 1 x 2 x 60`</p> <p><b>Studying:</b></p> <p>Case Study (Case Study)</p> <ul style="list-style-type: none"> <li>• Create a resume and answer practice questions</li> </ul> <p>1 x 2 x 60`	Material: Shapes of rock structures, Geometric structures Libraries: 1 – 5	5
3	Students are able to analyze the elements of geological structure (CPMK-1)	Formative: Activity and accuracy in connecting elements of geological structure. Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (5) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 1 x 2 x 50`	Studying: Self-Directed Learning • Reading modules/ PPT • Watching Video 1 x 2 x 60`</p> <p><b>Studying:</b></p> <p>Case Study (Case Study)</p> <ul style="list-style-type: none"> <li>• Create a resume and answer practice questions</li> </ul> <p>1 x 2 x 60`	Material: Primary Structure, Secondary Structure Libraries: 1 – 5	5

4	Students are able to analyze force and its relationship with material properties (CPMK-1)	Formative: Activity and accuracy in determining material (rock) properties Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (5) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 1 x 2 x 50`	Studying: Self-Directed Learning • Reading modules/ PPT • Watching Video 1 x 2 x 60`</p> <p><b>Studying:</b></p> <p>Case Study (Case Study)</p> <ul style="list-style-type: none"> <li>• Create a resume and answer practice questions</li> </ul> <p>1 x 2 x 60`	Material: Style, firmness and straightness of materials, rock properties, definition of axes emphasis. Libraries: 1 – 5	5
5-6	Students are able to analyze kinematics (CPMK-1)	Formative: Activity and accuracy in analyzing kinematics using Mohr's equations and diagram analysis. Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (5) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 2 x 2 x 50`	Studying: Self-Directed Learning • Reading modules/ PPT • Watching Video 2 x 2 x 60`</p> <p><b>Studying:</b></p> <p>Case Study (Case Study)</p> <ul style="list-style-type: none"> <li>• Create a resume and answer practice questions</li> </ul> <p>2 x 2 x 60`	Material: Translation, Rotation, Strain, Linear Strain, Shear Strain, Finite Ellipse Strain. Fundamental Strain Equations, Mohr Strain Diagrams, Strain Tensors, Strain in Rocks. Libraries: 1 – 5	5

7	Students are able to analyze dynamics (CPMK-1)	Formative: Activity and accuracy in stress analysis and Mohr Diagrams Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (5) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 1 x 2 x 50`	Studying: Self-Directed Learning • Reading modules/ PPT • Watching Video 1 x 2 x 60`  <b>Studying:</b> Case Study (Case Study) • Create a resume and answer practice questions  1 x 2 x 60`	Material: Stress, Stress Tensor, Diagram Mohr. Libraries: 1 – 5	5
8	Students are able to analyze the relationship between stress and strain (CPMK-2)	Formative: Activity and accuracy in analyzing stress and strain relationships. Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (5) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 1 x 2 x 50`	Studying: Self-Directed Learning • Reading modules/ PPT • Watching Video 1 x 2 x 60`  <b>Studying:</b> Case Study (Case Study) • Create a resume and answer practice questions  1 x 2 x 60`	Material: Rock deformation, Rock strength, Rock ductility, elasticity rocks.	5

9	Students are able to analyze fractures and joints (CPMK-2)	Formative: Activity and accuracy in analyzing fractures and joints. Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (5) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 1 x 2 x 50`	Studying: Self-Directed Learning • Reading modules/ PPT • Watching Video 1 x 2 x 60`</p> <p><b>Studying:</b></p> <p>Case Study (Case Study)</p> <ul style="list-style-type: none"> <li>• Create a resume and answer practice questions</li> </ul> <p>1 x 2 x 60`	Material: Fracture, Joint, Tensile joint, Joint scour. Libraries: 1 – 5	5
10	Students are able to analyze the concept of cesarean (CPMK-2)	Formative: Activity and precision in determining fault geometry and determining mylonites. Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (10) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 1 x 2 x 50`	Studying: Self-Directed Learning • Discuss the contents of the module/PPT in the virtual meeting platform 1 x 2 x 60`</p> <p><b>Studying:</b></p> <p>Case Study (Case Study)</p> <ul style="list-style-type: none"> <li>• Create a resume and answer Practice questions</li> </ul> <p>1 x 2 x 60`	Material: Fault geometry, Apparent displacement, True displacement (slip), Elements in fault structures, Fault rocks, Mylonites, Faulting process, sense of slip. style="line-height:1.2;margin-top:0pt;margin-bottom:0pt;">Libraries: 1 – 7	10

11	Students are able to classify cesareans (CPMK-2)	Formative: Activity and accuracy in fault classification. Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (10) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 1 x 2 x 50`	Studying: Self-Directed Learning • Discuss the contents of the module/PPT in the virtual meeting platform 1 x 2 x 60`</p> <p><b>Studying:</b></p> <p>Case Study (Case Study)</p> <ul style="list-style-type: none"> <li>• Create a resume and answer Practice questions</li> </ul> <p>1 x 2 x 60`	Material: Normal Fault, Thrust, Horizontal, oblique. Libraries: 1 – 7	10
12	Students are able to identify the mechanisms that form fractures and faults (CPMK-2)	Formative: Activity and accuracy in understanding the mechanisms of fracture and fault formation. Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (10) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 1 x 2 x 50`	Studying: Self-Directed Learning • Discuss the contents of the module/PPT in the virtual meeting platform 1 x 2 x 60`</p> <p><b>Studying:</b></p> <p>Case Study (Case Study)</p> <ul style="list-style-type: none"> <li>• Create a resume and answer Practice questions</li> </ul> <p>1 x 2 x 60`	Material: Crack formation mechanism and cesarean. Libraries: 1 – 7	10

13	Students are able to analyze the concept of folds (CPMK-2)	Formative: Activity and accuracy in fold classification identification. Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (10) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 1 x 2 x 50`	Studying: Self-Directed Learning • Discuss the contents of the module/PPT in the virtual meeting platform 1 x 2 x 60`</p> <p><b>Studying:</b></p> <p>Case Study (Case Study)</p> <ul style="list-style-type: none"> <li>• Create a resume and answer Practice questions</li> </ul> <p>1 x 2 x 60`	Material: Fold geometry, Fold classification. Libraries: 1 – 7	10
14-15	Students are able to identify geological structures in the field (CPMK-2)	Formative: Activity and accuracy in using tools and measuring geological structural elements. Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Practicum (15) dinilai dengan rubrik 1 Assessment Technique: Non Test	Practicum, Studio Practice, Workshop Practice, Field Practice: Case Study (Case Study) [15 x 1 x 50`] + [1 x 3 x 50']	Studying: Self-Directed Learning • Reading modules/ PPT • Watching Video [15 x 1 x 50`] + [1 x 3 x 50']</p> <p><b>Studying:</b></p> <p>Self-Directed Learning</p> <ul style="list-style-type: none"> <li>• Perform according to the module/PPT/video instructions according to the given project</li> </ul> <p>[15 x 1 x 50`] + [1 x 3 x 50']	Material: Use of geological compass, measurement of geological structural element data, and diagrams rosette. Libraries: 1 – 7	15

16	Students are able to arrange and identify geological cross-sections. (CPMK-2)	Formative: Activity and accuracy in constructing and identifying geological cross-sections. Sumative: -	Formative Criteria: Participation dinilai dengan rubrik 1 Sumative Criteria: Project/Case Study (5) dinilai dengan rubrik 1 Assessment Technique: Non Test	Studying: Case Study (Case Study) 1 x 2 x 50`	Studying: Self-Directed Learning • Reading modules/ PPT • Watching Video 1 x 2 x 60`  <b>Studying:</b> Case Study (Case Study) • Create a resume and answer practice questions  1 x 2 x 60`	Material: Kink Method, Restoration cross-section. Libraries: 1 – 7	5
							100

Matrix of SLO, CLO, and Assessment Method

SLO / CLO	CLO-1	CLO-2
CPL-4 (P1)	Project/Case Study (Weight 5%) Project/Case Study (Weight 5%) Project/Case Study (Weight 5%) Project/Case Study (Weight 5%) Project/Case Study (Weight 5%) Project/Case Study (Weight 5%)	
CPL-8 (KU1)	Project/Case Study (Weight 5%) Project/Case Study (Weight 5%) Project/Case Study (Weight 5%) Project/Case Study (Weight 5%) Project/Case Study (Weight 5%) Project/Case Study (Weight 5%)	
CPL-9 (KU2)		Project/Case Study (Weight 5%) Project/Case Study (Weight 5%) Project/Case Study (Weight 10%) Project/Case Study (Weight 10%) Project/Case Study (Weight 10%) Project/Case Study (Weight 10%) Practicum (Weight 15%) Project/Case Study (Weight 5%)

SLO / CLO	CLO-1	CLO-2
CPL-14 (KK4)		Project/Case Study (Weight 5%) Project/Case Study (Weight 5%) Project/Case Study (Weight 10%) Project/Case Study (Weight 10%) Project/Case Study (Weight 10%) Project/Case Study (Weight 10%) Practicum (Weight 15%) Project/Case Study (Weight 5%)

Evaluation Type and Assessment Weight

Type	Assessment Weight
Project/Case Study	85
Practicum	15
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	Practicum			
SLO-8	CLO-1	SUB-CLO-1	Participation	5	0	5		
SLO-8	CLO-1	SUB-CLO-2	Participation	5	0	5		
SLO-8	CLO-1	SUB-CLO-3	Participation	5	0	5		
SLO-8	CLO-1	SUB-CLO-4	Participation	5	0	5		
SLO-8	CLO-1	SUB-CLO-5	Participation	5	0	5		
SLO-8	CLO-1	SUB-CLO-6	Participation	5	0	5		
SLO-14	CLO-2	SUB-CLO-7	Participation	5	0	5		
SLO-14	CLO-2	SUB-CLO-8	Participation	5	0	5		
SLO-14	CLO-2	SUB-CLO-9	Participation	10	0	10		
SLO-14	CLO-2	SUB-CLO-10	Participation	10	0	10		
SLO-14	CLO-2	SUB-CLO-11	Participation	10	0	10		
SLO-14	CLO-2	SUB-CLO-12	Participation	10	0	10		
SLO-14	CLO-2	SUB-CLO-13	Participation	0	15	15		
SLO-14	CLO-2	SUB-CLO-14	Participation	5	0	5		
				85	15	100		

Lampiran Rubrik 1 | Rubrik Holistik

Tabel 6. 1 Rubrik Holistik		
Grade Capaian	Skor	Uraian
Sangat Baik	≥ 85	Memperlihatkan pemahaman yang lengkap tentang permasalahan. Semua metode dan persyaratan tentang tugas terdapat dalam jawaban
Baik	71 - 84	Memperlihatkan cukup pemahaman tentang permasalahan. Semua persyaratan tentang tugas terdapat dalam jawaban
Cukup Baik	61 - 70	Memperlihatkan hanya sebagian pemahaman tentang permasalahan. Kebanyakan persyaratan tentang tugas terdapat dalam jawaban
Kurang	51 - 60	Memperlihatkan sedikit pemahaman tentang permasalahan. Banyak persyaratan tugas yang tidak ada
Sangat kurang	< 51	Memperlihatkan tidak ada pemahaman tentang permasalahan