

**PROGRAM PLAN AND
SEMESTER LEARNING
ACTIVITIES
(RPKPS)
SCHOOL YEAR
2021/2022**



Geophysics
Field Lecture on Geology
MFG 2101 / 2 credits

Mentoring Team:
Imam Suyanto, Mochammad Nukman

**GADJAH MADA UNIVERSITY
FACULTY OF MATHEMATICS
AND NATURAL SCIENCES
2021**



Gadjah Mada University
 Faculty of Mathematics and Natural Sciences
 Department of Physics / S1 Geophysics Study
 Program Academic Year 2021/2022

Document Code:

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SEMESTER LEARNING PROGRAM AND ACTIVITY PLAN (RPKPS)

Course Code	Course Name	Weight (credit)		Semester	Course Status	Prerequisite Courses
MFG 2101	Geology Field Lecture	T : 2	P: -	Complete	Mandatory	-
Course Brief Description	<p>Geology Field Lecture is a geology lecture held in the field. The content of this course is applied petrology, and structural geology, as well as learning geological mapping.</p> <p>This course aims to provide basic practical experience of geological mapping fieldwork to entry-level geophysical students. This experience is necessary to help with the basics of geological interpretation on geophysical surveys</p>					
Achievement of Graduate Learning (CPL) The Encumbrance on the Constitutional Court	CPL-1	Good Attitude: Graduates are honest, disciplined, curious, critical, confident, independent, emotionally mature, cooperative, and trustworthy. Uphold norms, values, morals, religion, general ethics and professional ethics, and actively play a role in the global movement of sustainable development and behave professionally				
	CPL-2	Mastery of general knowledge: Graduates are able to apply basic science (mathematics, physics, chemistry, biology, geology), and geophysics in general and their relationship with other sciences such as geology, geodesy, geochemistry, geography, computing and information technology.				
	CPL-3	Operational and comprehensive skills: Graduates are able to apply all geophysical methods (seismic, gravitational, magnetic, electrical, electromagnetic, and thermic methods) for energy exploration (e.g. oil and gas, coal, geothermal), mining materials (eg: iron, copper, gold, silver, tin) as well as groundwater and disaster mitigation				
	CPL-4	Application and analysis skills: Graduates are able to carry out and manage a geophysical survey which includes scientific steps in the acquisition, processing and interpretation of data for the exploration of natural resources both for energy (e.g. oil and gas, coal, for energy exploration (e.g. oil and gas, coal, geothermal), mining materials (eg: iron, copper, gold, silver, tin) as well as groundwater and disaster mitigation				
Achievement of Course Learning (CPMK)	After completing the learning of this course, students are expected to be able to:					
	CPMK-1	Understand the basic procedures of geological mapping. Starting from reading topographic maps, terrain orientation, lithological and structural descriptions, and recording data in field books. [CPL-2]				

	CPMK-2	Can do group geological mapping, make geological trajectory maps, geological maps, geological incisions, and stratigraphic columns. [CPL-3]
	CPMK-3	Giving a presentation of geological mapping results. [CPL-4]

CPL Mapping with CPMK				
		CPMK-1	CPMK-2	CPMK-3
	CPL-1			
	CPL-2			
	CPL-3			

The Relationship of CPMK with Learning Materials and Forms, as well as Time Allocation		Learning Materials	Forms of Learning	Time Allocation
	CPMK1	Local geology area Geology Field Lecture	SCL and Discussion	2 Hours
	CPMK2	Observing rock outcrops at the location of field lectures on line 1, Geological data recording techniques.	SCL and Discussion	2 Hours
	CPMK2	Field petrology and stratigraphy, the basics of making geological trajectories on track 1	SCL and Discussion	2 Hours
	CPMK2	Observing rock outcrops at the location of field lectures on line 2, stratigraphic petrology observations and geological structure measurements	SCL and Discussion	2 Hours
	CPMK2	Integration of petrolog, stratirafi, field geological structure and continuing the creation of geological trajectories on line 2	SCL and Discussion	2 Hours
	CPMK2	Conduct entry-level geological mapping	SCL and Discussion	2 Hours
	CPMK3	Moving geological records in early geological maps	SCL and Discussion	2 Hours

UTS/Project Task Results/Case Analysis Results

	CPMK3	Conducting geological trajectories independently	SCL and Discussion	2 Hours
	CPMK3	Conduct geological mapping independently, in groups	SCL and Discussion	2 Hours
	CPMK3	Conduct geological mapping independently, in groups	SCL and Discussion	2 Hours
	CPMK3	Presenting the results of geological mapping work	SCL and Discussion	2 Hours

UAS/ Project Task Results/ Case Analysis Results

Learning Method	SCL and Discussion
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Student Learning Experience	Study, discussion, Q&A
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Access Media Learning ran/ LMS and Offline & Online Percentage	
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Assessment Methods and Alignment with CPMK	Assessment Techniques	Assessment Percentage	Criteria/ Indicators	CPMK-1	CPMK-2	CPMK-3	CPMK-4
	Participatory Activities^{*)}						
Project Results/Case Study Results/PBL Results^{*)}		35		√	√		
Cognitive							
Assignment		40					
Quiz							

	UTS						
	UAS	25				√	√
	Total	100					

*) can also be obtained from UTS or UAS which is the result of participatory activities or *project* / case study results. In accordance with IKU 7, **the percentage of** participatory activities and project results/case studies/PBL results is at least 50%.

Reference List							
Name of Lecturer (Team Teaching)	<ol style="list-style-type: none"> 1. Imam Suyanto 2. Mochammad Nukman 						
Authorization	Drafting Date	Course Coordinator	Coordinator of Expertise (if any)			Head of Study Program	
	<i>August 3 2022</i>	<i>(Signature)</i>					