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



Geophysics Basic Geology Practicum MFG-1105/ 1 Credits

Supervisory Team: Mochamad Nukman Sintia Windhi

## 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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S	SEMESTER LEARNING PROGRAM AND ACTIVITY PLAN (RPKPS)							
Course Code	Course Name	Weight (credit)	Semester	Course Status	Prerequisite Courses			
MFG-1105	Basic Geology	<i>T: 2 P:-</i>	Complete	Mand atory	-			
Course Brief Description	The Basic Geology Practicum aims to develop observation skills, and an understanding of geological features and processes for students. Practicum in the laboratory emphasizes the study of data and observation. Field trips, <i>for example in the Kulonprogo area, are designed to introduce students to field observations of geological features.</i>							
Graduate Learning Outcomes (CPL) Charged to MK	CPL-1	mature, cooperative, and t	curious, critical, confident, rustworthy. Uphold norms, onal ethics, and actively play pment and behave					
	CPL-2	Mastery of general knowledge: Graduates are able to apply basic science (mathematics, physics, chemistry, biology, geology), and geophysics in gener and their relationship with other sciences such as geology, geodesy, geochemistry, geography, computing and information technology.Operational and comprehensive skills: Graduates are able to apply all geophysical methods (seismic, gravitational, magnetic, electrical, electromagi and thermic methods) for energy exploration (e.g. oil and gas, coal, geotherm mining materials (eg: iron, copper, gold, silver, tin) as well as groundwater ard disaster mitigation						
	CPL3							
Course Learning	After completing	ter completing the learning of this course, students are expected to be able to:						
Outcomes   CPMK-1   Students have a disciplined and active nature [CPL-1]								
(СРМК)	СРМК-2	concepts of geomorphology and geological structure [CPL-2]						
	СРМК-З							
CPL mapping with CPMK		CPL- CPL- CPL-	2	X-1 CPMK-2 CPMK	<u> </u>			
The Relationship of CPMK with		Lear	ning Materials	s Forms of Learn	ning Time Allocation			

Material and	СРМК-1	Introduction		Project		2		
Form Learning,				based		Hour		
and Time	СРМК-1	Geomorpholog	y	Project		2		
Allocation			-	based		Hour		
	СРМК-1	Topographic map		Project		2		
				based		Hour		
	СРМК-2	Rock		Project		2		
				based		Hour		
	СРМК-2	Geological structure		Project		2 11.0117		
	СРМК-2	Gaashranalagy		based Project		Hour 2		
		Geochronology		based		Hour		
	СРМК-3	Geologic map		Project		2		
				based		Hour		
	СРМК-3	Geological too	ls	Project			2	
				based		Hour		
	СРМК-З	Field trip		Project		6		
Tarantar	D : 1 11	·	1	based		Hours		
Learning Methods	Project based learn	ing, Presentation	ns, discussions					
Student	Practice (observation	Practice (observation), discussion						
Learning								
Experience								
Access Learning	LCD, paper, Simaster (e-learning) or Google classroom or ELOK.							
Media / LMS	Geological map, geological compass, geological hammer, geological							
and Offline &; Online	loupe. 100% offline							
Percentage	10070 0111110							
Assessment								
Methods and	Assessment	Assessment	Criteria/	CPMK-1	СРМК-2	CPMK-3		
Alignment	Techniques	Percentage	Indicators					
with CPMK	Participatory Activities*)	30	Participation					
			D 1					
		40	Rubric Pubric of					
	Project	40	Rubric of					
	Project Results/ Case	40	Rubric of assessment					
	Project Results/ Case Study	40	Rubric of					
	Project Results/ Case	40	Rubric of assessment presentation					
	Project Results/ Case Study Results/ PBL	40	Rubric of assessment presentation of case					
	Project Results/ Case Study Results/ PBL Results*) Cognitive Response	30	Rubric of assessment presentation of case					
	Project Results/ Case Study Results/ PBL Results*) Cognitive Response Total	<u>30</u> 100	Rubric of assessment presentation of case study results					
	Project Results/ Case Study Results/ PBL Results*) Cognitive Response Total *) can also be obtain	30 100 ed from UTS or	Rubric of assessment presentation of case study results UAS which is t				case	
	Project Results/ Case Study Results/ PBL Results*) Cognitive Response Total *) can also be obtain study results. In ac	30 100 ed from UTS or ccordance with I	Rubric of assessment presentation of case study results UAS which is t KU 7, <b>the perce</b>				case	
Reference	Project Results/ Case Study Results/ PBL Results*) Cognitive Response Total *) can also be obtain study results. In ac results/case studie	30 100 ed from UTS or ccordance with I s/PBL results is	Rubric of assessment presentation of case study results UAS which is t KU 7, <b>the perce</b> at least 50%.	entage of partic	pipatory activition		case	
Reference	Project   Results/ Case   Study   Results/ PBL   Results*)   Cognitive   Response   Total   *) can also be obtain study results. In address study   Results/case studie   1. Manual of Ba	30 100 ed from UTS or ccordance with I s/PBL results is sic Geology Prac	Rubric of assessment presentation of case study results UAS which is t KU 7, <b>the perce</b> at least 50%. cticum, Geologic	entage of partic	FT-UGM.	es and project		
Reference List	Project   Results/ Case   Study   Results/ PBL   Results*)   Cognitive   Response   Total   *) can also be obtain study results. In address study   Results/case studie   1. Manual of Ba	30 100 ed from UTS or ccordance with I s/PBL results is sic Geology Prad	Rubric of assessment presentation of case study results UAS which is t KU 7, <b>the perce</b> at least 50%. cticum, Geologic c, E.M., Schiefell	entage of partic cal Engineering bein, L.M., 200	ipatory activition FT-UGM. 7. Stuctural An	es and project		

Name of Lecturer ( <i>Team</i>	1. Mochamad Nuki 2. Sintia Windhi N			
<u>Teaching</u> ) Authorization	Drafting Date	Course Coordinator	Coordinator of Expertise (if applicable)	Head of Study Program
	Aug 16, 2022			= hudannal.
		Dr.rer.nat. Mochamad Nukman.	Dr. rer.nat. Ade Anggraini, M.T.	Dr. Sudarmaji, MSi.