

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



Geophysics

Petrology

Practicum

Supervisory Team:

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**UNIVERSITAS GADJAH  
MADA 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-4704	Petrology Practicum	T: 2	P:-	Even	Choice	Basic Geology

**Course Brief Description**  
 Petrology practicum is part of the Petrology course, which studies rocks. In this practicum, students will practice how to define stones directly.


Graduate Learning Outcomes (CPL) Charged to MK	CPL-1	<b>Good Attitude:</b> 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	<b>Mastery of general knowledge:</b> 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
	CPL3	<b>Operational and comprehensive skills:</b> 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

Course Learning Outcomes (CPMK)	After completing the learning of this course, students are expected to be able to:	
	CPMK-1	Students have a disciplined and active nature [CPL-1]
	CPMK-2	Students know and are able to define minerals, understand the process and see directly / physically various minerals [CPL-2].
	CPMK-3	Students know and are able to define rocks, understand the process and see directly / physically the kinds of rocks [CPL-3].

CPL mapping with CPMK		CPMK1	CPMK2	CPMK3
	CPL-1			
	CPL-2			
	CPL-3			

The Relationship of CPMK with Learning		Learning Materials	Forms of Learning	Time Allocation
	CPMK-1	Introduction	Project based	2 Hour

<b>and Time Allocation</b>	<i>CPMK-2</i>	Mineralogy	Project based	2 Hour		
	<i>CPMK-3</i>	Igneous rocks	Project based	2 Hour		
	<i>CPMK-3</i>	Sedimentary Rocks	Project based	2 Hour		
	<i>CPMK-3</i>	Metamorphic rocks	Project based	2 Hour		
	<i>CPMK-3</i>	Carbonate rocks	Project based	2 Hour		
	<i>CPMK-2</i>	Petrophysics	Project based	2 Hour		
	<i>CPMK-1</i>	<i>Field Trip</i>	Project based	6 Hour		
<b>Learning Methods</b>	<i>Project based learning</i> , Presentations, discussions					
<b>Student Learning Experience</b>	Practice (observation), discussion					
<b>Access Learning Media / LMS and Offline &amp; Online Percentage</b>	LCD, paper, Simaster (e-learning) or Google classroom or ELOK. Geological map, geological compass, geological hammer, geological loupe. 100% offline.					
<b>Assessment Methods and Alignment with CPMK</b>	<b>Assessment Techniques</b>	<b>Assessment Percentage</b>	<b>Criteria/ Indicators</b>	<b>CPMK-1</b>	<b>CPMK-2</b>	<b>CPMK-3</b>
	<b>Participatory Activities*)</b>	25	Participation Rubric			
	<b>Project Results/ Case Study Results/ PBL Results*)</b>	50	Assessment rubrics			
	<b>Cognitive</b>					
	<b>Response</b>	25				
	<b>Total</b>	100				
	*) can also be obtained from UTS or UAS which is the result of participatory activities or <i>project / case study results</i> . In accordance with IKU 7, <b>the percentage of participatory activities and project results/case studies/PBL results is at least 50%</b> .					
<b>Reference List</b>	1. Petrology Practicum Handbook, 2021.					
<b>Name of Lecturer (Team Teaching)</b>	1. Mochamad Nukman 2. Sintia Windhi Niasari					
<b>Authorization</b>	<b>Drafting Date</b>	<b>Course Coordinator</b>	<b>Coordinator of Expertise (if any)</b>	<b>Head of Study Program</b>		

	<i>Aug 16, 2022</i>	Dr.rer.nat. Mochamad Nukman	Dr. rer.nat. Ade Anggraini, M.T.	 Dr. Sudarmaji, MSi.
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