

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



Geophysics Practical
Work
MFG 3122 / 2
credits

Mentoring Team:

Supervisor(s)

**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 3122	Internship	T :	P: -	Complete	Mandatory	Minimum 80 credits
Course Brief Description	After participating in practical work, students can get to know real jobs for geophysicists. Field work practice in companies or institutions that are closely related to geophysics for approximately 1-2 consecutive months.					
Graduate Learning Outcomes (CPL) Charged to MK	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.				
	CPL-5	Synthesis and Evaluation Skills: Graduates are able to interpret geophysical data in the form of solving advanced and reverse problems (inverse problems) in an integrated manner that have ambiguous characters, carry out interpretation by making models and / or solving simple forward and reverse problems and are skilled in the use of computers both for the purposes of solving geophysical problems and for communication and internet access.				
	CPL-6	Managerial skills and self-development: Graduates are able to update their competencies, namely by life-long learning in line with the latest geophysical conditions to compete nationally and internationally by upholding UGM values (Pancasila: Divinity, Humanity, Unity, Peoplehood, Justice, and Science: universality, objectivity, freedom, respect for reality and truth)				
Course Learning Outcomes (CPMK)	After completing the learning of this course, students are expected to be able to:					
	CPMK-1	Cultivate a good and professional attitude [CPL-1]				

	CPMK-2	Students gain field experience to practice general knowledge and operational skills [CPL-1, CPL-2]					
	CPMK-3	Students gain field experience in the implementation of application skills, analysis, synthesis and evaluation [CPL-3, CPL-4]					
	CPMK-4	Students gain field experience in honing managerial skills and developing themselves [CPL-6]					
CPL mapping with CPMK			CPMK-1	CPMK-2	CPMK-3	CPMK-4	
	CPL-1		√				
	CPL-2			√			
	CPL-3			√			
	CPL-4				√		
	CPL-5				√		
	CPL-6						√
CPM K link with Learning Materials and Forms , as well as Time Allocation		Learning Materials		Forms of Learning		Time Allocation	
	CPMK-1	Cultivate a good and professional attitude at work		Mentoring and Assignment		100 hours of work or 25 working days	
	CPMK-2	Implementation of general knowledge and operational		Mentoring and Assignment			
	CPMK-3	Application, analysis, synthesis and evaluation		Mentoring and Assignment			
	CPMK-4	Develop managerial skills and self-development		Mentoring and Assignment			
Learning Methods							
Student Learning Experience	Practice professional work, make work plans, conduct data analysis, write work reports, draw conclusions from activities, presentations						
Access Learning Media / LMS and Offline & Online Percentage	Laptop/Computer, Paper						
Assessment Methods and Alignment with CPMK	Assessment Techniques	Assessment Percentage	Criteria/ Indicators	CPMK-1	CPMK-2	CPMK -3	CPMK -4
	Participatory Activities*)	50	Supervisor Assessment	√	√	√	√
	Project Results/Case Study Results/PBL Results*)	50	Reports and presentations	√	√	√	√

	Cognitive						
	Assignment						
	Quiz						
	UTS						
	UAS						
	Total	100					
*) can also be obtained from UTS or UAS which is the result of participatory activities or <i>project / case study</i> 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)	The team of lecturers appointed by the Geophysics Study Program						
Authorization	Drafting Date	Course Coordinator	Coordinator of Expertise (if applicable)	Head of Study Program			
	2022	Lecturer Team		 Dr. Sudarmaji, MSi			