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



## Geophysics Geophysical Instrumentation Practicum MFG 4720/1 credits

Mentoring

UNIVERSITAS GADJAH MADA FACULTY OF MATHEMATICS AND NATURAL SCIENCES 2020



**Gadjah Mada University**Faculty of Mathematics and Natural Sciences
Department of Physics / S1 Geophysics Study Program
Even Semester 2020

<b>Document</b>
Code:

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	Even semester 2020										
SEMESTER LEARNING PROGRAM AND ACTIVITY PLAN (RPKPS)											
<b>Course Code</b>	Course Name	Weight (credit)		Semester			Course Status		Prerequisite Courses		
		T: P:			even		Choice				
Course Brief Description		er participating in this practicum, students are expected to be able to design, implement and test a surement instrument / data logger related to geophysical methods.									
Graduate Learning Outcomes (CPL)	CPL-1	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									
Charged n in MK	CPL-3	(seism	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.								
Course	After comp	leting t	the lear	ning of this	course, stud	ents are exp	ected to be a	ble to:			
Learning Outcomes									[CPL-1, CPL-3]		
(CPMK)	СРМК-2	Stude	Students are able to make instruments/data loggers according to the topic [CPL-3]								
	СРМК-3	Students are able to test the instrument and analyze the results [CPL-1, CPL-3]									
CPL Mapping					СРМК1	СРМК2	СРМК3	]	-1		
with CPMK				CPL-1 CPL-2 CPL-3	V	V	V				
				CPL-4 CPL-5	v	v	•				
CPM		Learning Materials Forms of Learni						f Learning	Time		

CPM K link		Learning Materials	Forms of Learning	Time Allocation			
with		Introduction and discussion of individual tasks	2 Hours				
Material		Instrument design discussion Case					
and Form		-	Based				
of		Discussion and monitoring of instrument making	Case	16 Hours			
Learning,			Based				
as well as		Discussion and monitoring of instrument trials	Case	4 Hours			
Time			Based				
Allocation	Report generation Case						
			Based				

Learning Methods	CBL								
Student Learning Experience	Study, discussion, practice, problem sorveing, question and answer								
Access to Learning Media an/ LMS and Offline &; Online Percentage	Slides, reference books, Gclass								
Assessment Methods and Alignment	Assessment Techniques	Assessment Percentage	Criteria / Indicator	СРМК-1	СРМК-2	СРМК-3			
with CPMK	Participatory Activities*)	10		5		5			
	Project Results / Case Study / PBL Results	90		5	70	15			
	Cognitive								
	Assignment	100		10	70	20			
	Quiz								
	UTS								
	UAS								
	Total	100							
	*) can also be obtained from UTS or UAS which is the result of participatory activities or <i>project</i> / case study results. In accordance with IKU 7, <b>the percentage of</b> participatory activities and project results/case studies/PBL results is at least 50%.								
Reference List	Instruction boo	oks of each G	eophysical	tool					
Name of Lecturer (Team Teaching)	Dr. Eddy Hart Dr. Afif Rakh								
Authorization	<b>Drafting Date</b>	ng Date Course Coordinator					nator of ertise licable)	Head of Study Program	

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	Dr. Eddy Hartantyo	Dr Sudarmaji,MSi