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



Geophysical Thesis
MFG 4101/6 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:

SEM	ESTER LEAR	NING	PRO	OGRAM A	ND ACTIVITY PLAN (RPKPS)				
Course Code	Course Name	Weight (credit)		Semester	Course Status	Prerequisite Courses			
MFG 4101	Thesis	T: 6	P:	Complete	Mandatory	Minimum 130 credits			
Course Brief Description	1. Able to a thesi 2. Able to presen 4. Able to websit 5. Able to	er completing the Thesis course, students are expected to: 1. Able to conduct geophysical research and earth science scientifically reported in the form of a thesis. 2. Able to convey the results of research and analysis in the form of thesis writing 3. Able to explain and account for the results of research and analysis in the form of presentations at the thesis examination session 4. Able to describe research results in scientific paper publications and uploaded on university websites. 5. Able to maintain and develop networks with mentors, colleagues, peers both inside and outside the institution.							
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, religing general ethics and professional ethics, and actively play a role in the global movement sustainable development and behave professionally Mastery of general knowledge: Graduates are able to apply basic science (mathemat physics, chemistry, biology, geology), and geophysics in general and their relationship wother sciences such as geology, geodesy, geochemistry, geography, computing and informat technology.							
	CPL-3								
	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.							
	the form of manner the			f solving advatate have amb	uation Skills: Graduates are able to interpret geophysical data in advanced and reverse problems (inverse problems) in an integrated in mbiguous characters, carry out interpretation by making models in the use of				

communication and internet access.

conditions to compete nationally and

CPL-6

computers both for the purposes of solving geophysical problems and for

Managerial skills and self-development: Graduates are able to update their

competencies, namely by life-long learning in line with the latest geophysical

		Peoplehe	ood, Justice, a		M values (Pa			unity, Unity,		
Course	After completing the learning of this course, students are expected to be able to:									
Learning Outcomes (CPMK)	CPMK-1	Conduct	Conducting geophysical research and earth science scientifically [CPL-1, CPL-2, CPL-3, CPL-4]							
	СРМК-2	Presentin CPL-5]	Presenting the results of research and analysis in the form of thesis writing [CPL-4,							
	СРМК-3		Explain and account for the results of research and analysis in the form of presentations at the thesis examination session [CPL-1, CPL-5]							
	CPMK-4		Describe the results of research in scientific paper publications [CPL-1, CPL-5]							
	CPMK-5	Maintair	Maintain and develop networks with mentors, colleagues, peers both inside and outside the institution [CPL-6]							
CPL										
mapping			CPMK-1	CPMK-2	CPMK-3	CPMK-4	CPMK-5	1		
with CPMK		CPL-1	$\sqrt{}$		Ť					
		CPL-2]		
		CPL-3	$\sqrt{}$							
		CPL-4]		
		CPL-5				$\sqrt{}$]		
		CPL-6					$\sqrt{}$]		
СРМ		Lear	Learning Materials Forms of Learnin					llocation		

CPM K link with		Learning Materials	Forms of Learning Time Allocate Mentoring and Assignment 300 working hou				
Learning Materials and Forms	СРМК-1	Conducting geophysical research and earth science scientifically	300 working hours Or 75 working days				
, as well as Time Allocat ion	СРМК-2	Deliver the results of research and analysis in the form of thesis writing	Mentoring and Assignment				
	СРМК-3	Expose and account for the results of research and analysis in the form of presentations at the thesis examination session	Mentoring and Assignment				
	СРМК-4	Describe research results in scientific paper publications	Mentoring and Assignment				
	СРМК-5	Raise and develop networks with mentors, colleagues, peers both in	Mentoring and Assignment				

		deep And at							
	Outside the institution								
Learning						•			
Methods									
Student	Conduct research, conduct analysis, write scientific papers, draw conclusions, presentations								
Learning	Conduct resea	iren, conaact	anary 515, wr	ite serentine	papers, ara	v conclusion.	s, presentation	15	
Experience									
Access									
Learning	Laptop/Computer,LCD, Paper								
Media									
/									
LMS									
and Offline									
&; Online									
Percentage	Assossment	Assessment	Criteria/	CDM17.4	CDM 41/ A	CDM 11/2	CDM 417	CDM #17. #	
Assessment Methods and	Assessment Techniques	Percentage	Indicators	CPMK-1	CPMK-2	CPMK-3	CPMK-4	CPMK-5	
Alignment	Participatory	rereentage	indicators						
with CPMK	Activities*)								
	Project	100	Thesi						
	Results/Case		s exam						
	Study		scores						
	Results/PBL Results*)								
	Cognitive								
	Assignment	İ	i i	Ī	i i	Ī	Í	İ	
	Quiz								
	UTS								
	UAS								
	Total	100	L,						
							esult of participa		
							IKU 7, the p		
Reference List		l	participa	tory activities a	and project resu	ns/case studies/	PBL results is at	reast 50%.	
Reference List									
Name of	Lecturer Team	of Geophysics	s Study Prog	gram UGM					
Lecturer									
(Team									
Teaching)									
Authorization	Drafting Date	Course Co	ordinator	Coordina	tor of Expert	tise (if any)	Head of Stu	dy Program	
		Lecturer Te							
	2022	Geophysics					Dt.	22	
		Program UC	GM				= tudar	mal.	
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							Dr. Sudar	maji, MSi	
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