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



Physical Geophysics Seismic Stratigraphy MFG 4619/ 2 credits

Mentoring Team: Eddy Hartantyo, Sintia Windhi

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:

.....

SEMESTER LEARNING PROGRAM AND ACTIVITY PLAN (RPKPS)

Course Code	Course					Prerequisite			
	Name	We (cr	eight edit)	Semester	Course Status	Courses			
MFG 4619	Seismic Stratigraphi c	<i>T: 2</i>	<i>P</i> : -	Odd	Choice	MFG-2117			
Course Brief Description	It is an MI students. A 1. Stu seis 2. Stu pro var 3. Stu pap	 It is an MKP selection course in the Geophysics study program, for 7th semester students. After attending this lecture: Students are able to understand the process of processing seismic data for stratigraphic study purposes. Students are able to carry out the stratigraphic interpretation process, with software or manually, and are able to make various derivatives of seismic and stratigraphic attribute data Students Students are able to understand stratigraphic papers, study and deliver them. 							
Graduate Learning Outcomes (CPL) Charged to	<i>CPL-3</i> 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 material (eg: iron, copper, gold, silver, tin) as well as groundwater and disaster mitigation								
МК	CPL-4	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. o 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-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	After comp	leting	the learr	ning of this cour	rse, students are expected to be able to	0:			
Learning Outcomes	СРМК-1	under	rstand th	e process of proc	cessing seismic data for stratigraphic stu	udies [CPL-3]			
(СРМК)	СРМК-2	Students are able to carry out the stratigraphic interpretation process, with software or manually, and make various derivatives of seismic and stratigraphic attribute data							
	СРМК-3	Stude and d	ents are a leliver th	ble to understand stratigraphic papers, study em [CPL-6]					

CPL										
Mapping				CPMK1		CPMK2	CPMK3			
with			CPL-3	\checkmark						
СРМК			CPL-4							
			CPL-6				V			
							,	1		
CDM		Loomi	- Madan'ala		E				Timo	
CPM K link		Learni	ig Materials			Forms o	I Learning		Allocation	
with	CPMK1	Stratigraph	v 1 : Introduc	ction.	TCI	L - SCL			2 Hours	
Learning		RPKPS				ed				
Material	CPMK1	Stratigraph	y 2 : Deposit	ion	TCL - SCL				2 Hours	
and Form,		and stratig	aphy of clast	ic	mix	ed				
as well as		and non-clastic								
Time	CPMK1			c	TCL - SCL				2 Hours	
Anocation		stratigraph	y 5: Slages 0.	l on	mixed					
		Stratigraph	$\frac{c}{v} \frac{1}{1} \cdot Termine$	on	TCL SCL				2 Hours	
	CI MINZ	of reflection	n and sequen	ce of	mixed				2 110013	
		deposition			11117	.eu				
	CPMK2 Seismic 1 : Seismic pro			cess	TCL - SCL				2 Hours	
	-	data for stratigraphy 1			mixed					
	СРМК2	CPMK2 Seismic 2 : Seismic process			TCL - SCL				2 Hours	
	data for stratigraphy 2				mixed					
	CPMK2	Study of Sei	y of Seismic TCL - SCL					2 Hours		
	Attributes				mixed					
	·	UT	S/Project Ta	isk Res	ults/C	ase Analysis			-	
	CPMK3 Paper 1 presentation by group Presentations and Discussions							2 Hours		
		Α								
	СРМКЗ	Paper 2 presentation by group			Pres	sentations an	d Discussion	S	2 Hours	
		B			Descentations and Discussions				A 11	
	СРМКЗ	Paper 3 presentation by group			Presentations and Discussions				2 Hours	
		Depard presentation by group			Presentations and Discussions				2 Hours	
	CEMAS	D			resentations and Discussions				2 Hours	
	СРМКЗ	Paper 5 presentation by group			Presentations and Discussions				2 Hours	
	CI MINS	E			resentations and Discussions				2 110015	
	СРМКЗ	Paper 6 presentation by group			Presentations and Discussions			s	2 Hours	
		F								
	СРМКЗ	Paper 7 presentation by group			Presentations and Discussions			S	2 Hours	
		G								
UAS/ Project Task Results/ Case Analysis										
Learning	TCL - SCL, presentation, discussion									
Methods										
Student										
Learning										
Experience										

Access to Learning Media an/ LMS and Offline &; Online Percentage	LCD, Whiteboard, paper, Simaster (e-learning) or Google classroom or ELOK. 100% offline								
Assessment	Assessment	Assessment	Criteria/	СРМК	СРМК	СРМК3			
Methods	<u>Tecnniques</u>	Percentage	Indicators Liveliness	I	2	2			
Alignment with CPMK	Activities	20	assessment rubric		N	v			
	Project	40	Rubric of			\checkmark			
	<i>Results/</i> Has		assessment						
	n Case Study/		of case study						
	PBL		results						
	Results ^{*)}								
	Cognitive	20	A new on Low	.1	[
	015	20	Answer key	N					
	UAS	20	Answer key			\checkmark			
	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, the percentage of participatory activities and project results/case studies/PBL results is at least 50%.								
Reference List	Veeken, PCH. 2007. Seismic Stratigraphy, Basin Analysis, and Reservoir Characterization. Handbook of Geophysical Exploration, Seismic Exploration, v37, Elservier, UK.								
Name of Lecturer	1. Dr. Eddy Hartantyo								
(Team Teaching)	2. Dr. rer. Nat. Sintia Windhi Niasari								
Authorization	Draftin g Date	Course Coordinator			oordinato	r of Exper	tise (if any)	Head of Study Program	
	August 3 2022	(Signa)							