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



Geophysical
Stratigraphy
MFG 4613/ 2 credits

Mentoring Team:

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> UNIVERSITAS GADJAH MADA FACULTY OF MATHEMATICS AND NATURAL SCIENCES 2021



Gadjah Mada UniversityFaculty of Mathematics and Natural Sciences
Department of Physics / S1 Geophysics Study
Program Academic Year 2021/2022

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SEMESTER LEARNING PROGRAM AND ACTIVITY P	LAN (RPKPS)
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SEM	ESTER LEAR	RNING	PRO	OGRAM A	ND ACTIVITY PLAN (RPKPS)	
Course Code	Course Name	Wei	0			Prerequisite Courses	
MFG 4613	Stratigraphy	T: 2	P:	Odd	Choice	Basic Geology	
Course Brief Description		ips students on: a) definitions and types of stratigraphy; b) geological time scales; c) ationships with tectonics and sedimentation and stratigraphy; and d) the settling					
	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.					
Course	After comple	eting the learning of this course, students are expected to be able to:					
Learning	CPMK-1	Students are able to make stratigraphic correlations. [CPL-2]					
Outcomes (CPMK) Students are able to recognize the deposition environment from its chara [CPL-3]						nment from its characteristics.	
CPL							

CPL mapping with CPMK

	CPMK1	CPMK2
CPL-2		
CPL-3		

The Relationship of CPMK with Learning Materials and Forms, as well	
Allocation	Relationship of CPMK with Learning Materials and Forms, as well as Time

	Learning Materials	Forms of Learning	Time Allocation
СРМК-1	Introduction: definition and types of stratigraphy	TCL - SCL mixed	2 Hours
СРМК-1	Geologic time scale	TCL - SCL mixed	2 Hours
CPMK-1	Tectonics and sedimentation	TCL - SCL mixed	2 Hours
СРМК-1	Terrestrial depositional environment	TCL - SCL mixed	8 Hours
	UTS/ Project Tas	sk Results/ Case Analysis	
СРМК-2	Transitional deposition environment	TCL - SCL mixed	6 Hours
СРМК-2	Depositional environment	TCL - SCL mixed	8 Hours

	Sea							
			UAS/ Proje	ct Task Resul	ts/ Case Ana	lysis		
Learning Methods	TCL - SCL m	nixed						
Student Learning Experience	Listening, ask	Listening, asking questions, doing assignments and quizzes (stratigraphic correlation).						
Access Learning Media / LMS and Offline &; Online Percentage	Presentation S	Presentation Slides, Simaster (e-learning), 100% offline						
Assessment	Assessment	Assessment	Criteria/	CPMK-1	CPMK-2			
Methods and Alignment	Techniques Participator	Percentage	Indicators					
with CPMK	y Activities							
	Project							
	Results/Has							
	il Case Study/							
	PBL							
	Results*)							
	Cognitive							
	Assignment 25 Answer key							
	Quiz 25 Answer key							
	UTS 25 Answer key							
	Total 100 * can also be obtained from UTS or UAS which is the result of participatory activities or project /							
	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	Boggs, S., 2006, Principles of Sedimentology and Stratigraphy: New Jersey, Pearson							
	Education, Inc., 662 p.							
	Tucker, M.E., 2011, Sedimentary Rocks in the Field (fourth edition): West Sussex,							
	John Wiley and Sons, Ltd., 275 p.						,	
Name of	·	Nukman, Sint		Viasari				
Lecturer (Team								
Teaching)								
Authorization	Drafting Date	Course Coo	rdinator	Coordina Exper (if applic	tise	Head of S	Study Program	

August 16 2022		= Judamal.
		Dr. Sudarmaji, MSi