

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



Geophysics Project
Management
MFG 4713/ 2 credits

Mentoring Team:

**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 4713	Project Management	T : 2 P: -	Even	Choice	Minimum 60 credits
Course Brief Description	<p>Introduction to project administration and bureaucracy, techniques for winning a project (participating in auctions / tenders, etc.), Management of planning, implementing, and leading a project, Introduction to project financial management, management of people and materials / equipment, techniques for making progress reports and final reports, Simulation of planning a geophysical survey project as a whole.</p> <p>After attending this course, students can lead and implement a project, starting from planning, preparing cost budgets, operational stages, supervision, evaluation, and completion.</p>				
Graduate Learning Outcomes (CPL) Charged n in 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-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	Explain the significance of the 5 management functions			
	CPMK-2	Describe the project life cycle, the role of project management and organization			
	CPMK-3	Using planning tools in project planning and scheduling			
	CPMK-4	Use planning tools for cost estimation, resource allocation and project control			
	CPMK-5	Implement project management in the implementation of geophysical survey projects			

CPL Mapping with CPMK	<table border="1"> <tr> <td></td> <td>CPMK1</td> <td>CPMK2</td> <td>CPMK3</td> <td>CPMK4</td> <td>CPMK5</td> </tr> <tr> <td>CPL-1</td> <td>V</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CPL-2</td> <td></td> <td>V</td> <td>V</td> <td>V</td> <td></td> </tr> <tr> <td>CPL-6</td> <td></td> <td></td> <td></td> <td></td> <td>V</td> </tr> </table>						CPMK1	CPMK2	CPMK3	CPMK4	CPMK5	CPL-1	V					CPL-2		V	V	V		CPL-6					V
		CPMK1	CPMK2	CPMK3	CPMK4	CPMK5																							
	CPL-1	V																											
	CPL-2		V	V	V																								
CPL-6					V																								
CPMK link with Material and Form of Learning, as well as Time Allocation		Learning Materials	Forms of Learning	Time Allocation																									
	1	<i>Management and the importance of management functions in project management (Introduction to project administration and bureaucracy)</i>	TCL - SCL mixed	2 Hours																									
	2	<i>The significance, principles and types of management functions in project management (Introduction to project administration and bureaucracy)</i>	TCL - SCL mixed	2 Hours																									
	3	<i>The concept, understanding and life cycle of the project</i>	TCL - SCL mixed	2 Hours																									
	4	<i>Project Proposals and KAK (The technique of winning a project)</i>	TCL - SCL mixed	2 Hours																									
	5	<i>Project Organization and Team (Management leads a project)</i>	TCL - SCL mixed	2 Hours																									
	6	<i>Project planning (WBS and responsibility matrix) (Project planning management)</i>	TCL - SCL mixed	2 Hours																									
	7	<i>Project scheduling (Gant Chart, networking, PERT and CPM)</i> (Management of implementing a project)	TCL - SCL mixed	2 Hours																									
	UTS/Project Task Results/Case Analysis Results																												
	1	<i>Cost estimation and budgeting (Introduction to project financial management)</i>	TCL - SCL mixed	2 Hours																									
	2	<i>Cost minimization and resource allocation (people and materials/equipment management)</i>	TCL - SCL mixed	2 Hours																									
	3	<i>Project control (people and materials/equipment management)</i>	TCL - SCL mixed	2 Hours																									
	4	<i>Project evaluation, audit, reporting and completion (engineering Manufacture report Progress and final report)</i>	TCL - SCL mixed	2 Hours																									
	5	<i>Examples of case studies of planning geophysical survey projects (Simulation of planning a comprehensive geophysical survey project)</i>	TCL - SCL mixed	2 Hours																									
	6 & 7	<i>Entrepreneurship and business ethics (project manager)</i>	TCL - SCL mixed	2 Hours																									
	UAS/ Project Task Results/ Case Analysis Results																												
	Learning Methods	TCL - SCL mixed																											

Student Learning Experience	Study, discussion, Q&A								
Access to Learning Media an/ LMS and Offline &; Online Percentage									
Assessment Methods and Alignment with CPMK	Assessment Techniques	Assessment Percentage	Criteria/ Indicator	CPMK-1	CPMK-2	CPMK-3	CPMK-4	CPMK-5	
	Participatory Activities*)								
	Project Results / Case Study / PBL Results *)								
	Cognitive								
	Assignment	15							V
	Quiz	-			V				
	UTS	40			V	V	V		
	UAS	45					V	V	V
	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	<ol style="list-style-type: none"> 1. Budi Santoso, 2009, <i>Project Management, Graha Ilmu, Yogyakarta.</i> 2. Cleland,D., I., and Ireland Lewis R, 2006, <i>Project Management: strategic design and implementation, McGraw-Hill Companies</i> 3. Jones, Gareth, R. and Gorge, M., Jennifer, 2003, <i>Contemporary, Management, Third Edition, Mc Graw–Hill, Boston.</i> 4. Priyono, 1997. <i>Project Management, Internal Publications.</i> 5. Verheijen, P.J.T, <i>Project Management Reading, Geophysics Lab. UGM.</i> 6. Witzel, M., 2004, <i>Management The Basic, Routledge, 270 Madison Ave, New York</i> 								
Name of Lecturer (Team Teaching)	Ir. Priyono Nugroho D., MSP., Ph.D., IPM.								
Authorization	Drafting Date	Course Coordinator			Coordinator of Expertise (if applicable)		Head of Study Program		

	2020	 <i>Ir. Prijono Nugroho D., MSP., Ph.D., IPM.</i>		 Dr. Sudarmaji,MSi
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