

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



Geophysics
Ethics and Communication in
Geosciences MFG4725/ 1 credit

Mentoring Team:

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**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																				
MFG4725	<i>Ethics and Communication in Geosciences</i>	T: 2	P: 1	Odd	Choice																					
Course Brief Description	In this course, students will learn and understand how to convey geoscience communication science when natural disasters occur or explain natural processes or phenomena. Students will also understand ethics in communicating scientifically, both oral and written communication techniques (articles).																									
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, 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 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	Students are able to understand and practice science and geoscience communication techniques and convey them in a language that is easily understood by the public																								
	CPMK-2	Students are able to understand ethics in science and geoscience communication both orally and in writing (publication articles)																								
CPL mapping with CPMK	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>CPMK1</th> <th>CPMK2</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>CPL-1</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td></td> <td></td> </tr> <tr> <td>CPL-2</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td></td> <td></td> </tr> <tr> <td>CPL-6</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td></td> <td></td> </tr> </tbody> </table>							CPMK1	CPMK2			CPL-1	✓	✓			CPL-2	✓	✓			CPL-6	✓	✓		
	CPMK1	CPMK2																								
CPL-1	✓	✓																								
CPL-2	✓	✓																								
CPL-6	✓	✓																								
The Relationship of CPMK with Learning Materials and Forms,	CPMK	Learning Materials			Forms of Learning	Time Allocation																				
	CPMK – 1	Introduction and Introduction Communication in Geosciences			Material exposure	2 Hours																				

and Time Allocation	<i>CPMK – 1</i>	Public communication techniques	Material exposure + SCL + Discussion	2 Hours				
	<i>CPMK – 1</i>	Communicating science 1	Material exposure + SCL + Discussion	2 Hours				
	<i>CPMK – 1</i>	Communicating science 2	Material exposure + SCL + Discussion	2 Hours				
	<i>CPMK – 1</i>	Workshop plain language: Grandma Talk	Material exposure + SCL + Discussion	2 Hours				
	<i>CPMK – 1</i>	Creating a Plain Language Summary	Material exposure + SCL + Discussion	2 Hours				
	<i>CPMK – 1</i>	Profile Articles	Material exposure + SCL + Discussion	2 Hours				
	UTS/Project Task Results/Case Analysis Results							
	<i>CPMK – 2</i>	Scientific and Research Ethics I	Material exposure + SCL + Discussion	2 Hours				
	<i>CPMK – 2</i>	Scientific Ethics and Research II	Material exposure +SCL+PBL+ Discussion	2 Hours				
	<i>CPMK – 2</i>	Science communication ethics in mass media	Material exposure +SCL+PBL+ Discussion	2 Hours				
	<i>CPMK – 2</i>	Science communication ethics in the event of natural disasters	Material exposure + SCL + Discussion	2 Hours				
	<i>CPMK – 2</i>	Ethics in writing scientific papers I	Material exposure + SCL + Discussion	2 Hours				
	<i>CPMK – 2</i>	Ethics in writing scientific papers II	Material exposure + SCL + Discussion	2 Hours				
	UAS/ Project Task Results/ Case Analysis							
Learning Methods	In this course, there are 4 learning methods, namely presentations from lecturers, Student Based Learning, Problem Based Learning, and discussions							
Student Learning Experience	Students actively discuss, listen and understand lecture materials given by lecturers, looking for literacy when student-based and <i>problem-based learning</i> .							
Access Learning Media / LMS and Offline & Online Percentage	100% offline							
Assessment Methods and Alignment with CPMK	Assessment Techniques	Assessment Percentage	Criteria/ Indicators	CPMK-1	CPMK-2			
	Participatory Activities*)							
	<i>Project Results/Case Study Results/PBL Results*)</i>							
	Cognitive							

	Quiz	20		✓	✓		
	UTS	30		✓	✓		
	UAS	50		✓	✓		
	Total	100					
Reference List	1. Das et al., 2017., Research Ethics, Media and communication studies. 2. Fennel., 2017., Ethics and Research in publication., elsevier. 3. National Disaster Management Guidelines – National Disaster Management Information and Communication System (NDMICS) 2011 4.						
Name of Lecturer (Team Teaching)	1. Dr. rer. Nat. Ade Anggraini, M.T. 2. Dr. rer. Nat. Herlan Darmawan, M.Sc						
Authorization	Drafting Date	Course Coordinator	Coordinator of Expertise (if any)	Head of Study Program			
	07 September 2022	Dr. rer. Nat. Ade Anggraini, M. T.		 Dr.. Sudarmaji,MSi			