FI346 Volcano Physics

Module name:	Volcano Physics					
Module level, if applicable:	Undergraduate					
Code:	FI346					
Sub-heading, if applicable:	-					
Classes, if applicable:	-					
Semester:	3 rd					
Module coordinator:	Nanang Dwi Ardi					
Lecturer(s):	Nanang Dwi Ardi					
Language:	Bahasa Indonesia					
Classification within the curriculum:	Elective course					
Type of Teaching	Contact hours per week during the semester	Class Size				
 Lecture (conceptual, contextual and problem-solving approaches through expository, discussions and exercises). Structured activities (assignments based on conceptual, contextual and problem-solving approaches) Self-study (reading literature) 	100 minutes	35				
Workload:	Total workload is 91 hours (3.2 ECTS) per semester which consists of 100 minutes lectures (0.82 ECTS), 120 minutes structured activities (0.99 ECTS), and 120 minutes self-study per week for 14 weeks (0.99 ECTS), 100 minutes for each exam (0.12 ECTS), and 240 minutes for each exam preparation (0.28 ECTS).					
Credit points:	3.2 ECTS					
Pre-requisites course(s):	-					
After taking this course the students have ability to:CLO1:Explain volcano definitionCLO2:Explain magmaCLO3:Identify form and structure of volcanoCLO4:Describe volcano eruptionCLO5:Explain rock volcano's conceptCLO6:Explain Volcano and geothermal potencyCLO7:Explain volcano mitigation hazardCLO8:Explain Paleo Volcano definitionCLO9:Describe the method of volcano identification						

	CLO10: CLO11:	Analyse Krakatau as submarine volcano based on					
Content:	Volcano definition and Volcano in Indonesia, Magma, Form and Volcano structure, Volcano Eruption, The rock of volcano, Volcano and geothermal, Volcano mitigation hazard, Paleo volcano, Identification volcano activities, Paleo volcano in Indonesia, Krakatau special case.						
	The final mark will be weight as follow:						
	No CLO	Assessment Object	Assessment Techniques	Weight			
Study/exam achievements:	1 CLC CLC						
Study/exam achievements.		a. Individual	Written test	30%			
		assignments b. Mid Exam c. Final Exam	Written test Written test	35% 35%			
	Total	100%					
Forms of media:	Board, LCD Projector, Laptop/Computer, stream video conference, relevant volcano documentary movie						
Literature:	 Plummer, C.C., et al. (2016). <i>Physical Geology, 15th edition</i>. McGraw – Hill Education, New York. Holt, Rinehart and Winston. (2018). <i>Earth Science, Interactive Textbook</i>. A Harcourt Education Company, Austin. Rothery, D. (2015). <i>Geology Complete Introduction</i>. McGraw – Hill Companies, Inc. United Kingdom 						

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CLO1												
CLO2												
CLO3				N								
CLO4												
CLO5												
CLO6												
CLO7												
CLO8												
CLO9												
CLO10												
CLO11					N							