

UNIVERSITAS NEGERI YOGYAKARTA

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Bachelor of Education in Mathematics

MODULE HANDBOOK

Modulo namo:	Developing and Producing Instructional Media for					
	Mathematics					
Module level, if applicable:	Undergraduate					
Code:	PMA6206					
Sub-heading,if applicable:	-					
Classes,if applicable:	-					
Semester:	4 th					
Module coordinator:	Rosnawati, Dr.					
Lecturer(s):	Rosnawati, Dr.; Wahyu S., Ph.D; Murdanu, M.Pd					
Language:	Bahasa Indonesia					
Classification within the	Compulsory Course					
curriculum:						
Teaching format / class	100 minutes lectures and 120 minutes structured activities per					
hours per week during the	week.					
semester:						
	Total workload is 90,67 hours per semester which consists of					
Workload:	100 minutes lectures, 120 minutes structured activities, and					
	120 minutes self-study per week for 16 weeks.					
Credit points:	2					
Prerequisites course(s):	-					
	After taking this course the students have ability to					
	CO1. Demonstrate adaptation and independence in carrying					
Course Outcomes	out individual tasks and group assignments					
	CO2. Utilize ICT in the development of mathematics learning					
	media					

	CO3. Explain the concept of mathematics learning media						
	CO4. Overcome mathematical learning problems especially						
	about the effectiveness of mathematics learning by						
	using media						
	CO5. Design learning media according to topics in middle						
	school mathematics						
	CO6. Develope mathematics learning media according to						
	topics in middle school mathematics						
	CO7. Develop mathematics learning media according to						
	topics in secondary school mathematics that can be						
	used as assessment as learning						
	CO8. Conduct validation related to media of secondary						
	school mathematics learning						
	This course covers the notion of learning media, role and						
	function of learning media, types of learning media, planning						
	and selection of learning media, techniques of producing						
	learning media, techniques for presenting learning media, and						
Content:	evaluating learning media, which are specialized in						
	mathematics learning. Practicum for the design and						
	production of several types of mathematics learning media						
	according to the topics at each meeting is conducted						
	Attitude assessment is carried out at each meeting by						
Study/exam achievements:	observation and / or self-assessment techniques using the						
	assumption that basically every student has a good attitude.						
	The student is given a value of very good or not good attitude						
	if they show it significantly compared to other students in						
	general. The result of attitude assessment is not a component						
	of the final grades, but as one of the requirements to pass the						
	course. Students will pass from this course if at least have a						
	good attitude.						

	The final mark will be weight as follow:							
	No	CO	Assessment Object	Assessment Technique	Weight			
	1	CO2	Presentation	Observation	5%			
	2	CO3 CO4 CO5 CO6	 a. Individual assigment b. Group assigment c. Quiz d. Mid exam e. Post Exam 	Written test	10% 10% 5% 20% 25%			
	3	CO7 CO8	Product	Observation	25%			
				Total	100%			
Forms of media:	Board, LCD Projector, Laptop/Computer							
	1. Н аг	R., Molenda M., Russell, J., Instructional Media nologies for Learning. Merril Practice Hall.						
Literature:	 Manullang,dkk. 2017. Matematika Kelas X.Jakarta: Kemendikbud. 							
	3. Si Ki	inaga, emendil	dkk. 2017. Matema kbud.	atika Kelas V	/II.Jakarta:			

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1		✓										
CO2				✓								
CO3					✓							
CO4							✓					
CO5								✓				
CO6										✓		
C07											√	
CO8												\checkmark