

UNIVERSITAS NEGERI YOGYAKARTA

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Bachelor of Education in Mathematics

MODULE HANDBOOK

Module name:	Study of International Mathematics Education						
Module level, if	Undergraduate						
applicable:							
Code:	PMA6220						
Sub-heading, if	_						
applicable:							
Classes, if applicable:	-						
Semester:	7 th						
Module coordinator:	Wahyu Setyaningrum, M.Ed., Ph.D.						
Lecturer(s):	Wahyu Setyaningrum, M.Ed., Ph.D.						
Language:	Bahasa Indonesia						
Classification within	Elective Course						
the curriculum:							
Teaching format /							
class hours per week	100 minutes lectures and 120 minutes structured activities per week.						
during the semester:							
	Total workload is 90,67 hours per semester which consists of 100						
Workload:	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:						
Course outcomes:	CO1. Demonstrate collaborative attitude and independence to do individual or group assigntments						

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	CO2. Communicate ideas in solving mathematical problems writing or verbally							
	CO3. Explaining the comparison of the education systems, the learning curriculum, the learning strategies, and the evaluation systems in several countries							
	CO4. Explaining the study's result of the international supertaining to the students' mathematical abilities in seven countries							
	CO5.	CO5. Providing a solution / idea / thought on the mathematic education's problem in Indonesia by reviewing th existence of the data/information/cases in the internation world						
Content:	This course elaborates the education systems, the learning curriculum, the learning strategies, and the evaluation systems in several countries, either the developed and and the developing countries. This subject also discusses and analyzes the international surveys' result on the students' mathematical abilities such as TIMSS and PISA in several countries.							
	The fina	al mark	will be weight as follow	/:				
	No	со	Assessment Object	Assessment Technique	Weight			
	1 C	02	Presentation	Observation	10%			
Study/exam	2 C	O3	a. Individual	Written test	10%			
achievements:		nd	assessment					
	C	04	b. Group assessment		10%			
			c. Quiz		20%			
			d. Mid exam e. Final exam		20% 25%			
	3 C	O5	Media for demostration	Observation	5%			
		00	Media for demostration	Total	100%			
Forms of media:	Board, I	LCD P	rojector, Laptop/Compu	ter, Internet W	ebsite			
	1. Li, Y and Lappan G. 2013. Mathematics Curriculum in School							
	Education. Dordrecht: Springer Science & Bussiness Media.							
	2. Mullis, Ina VS. et all. 2012. TIMSS 2011 Encyclopedia: Education							
	Policy and Curriculum in Mathematics and Science. Volume 1: A							
Literature:	– K. Boston: TIMSS and PIRLS International Study Center.							
	 Mullis, Ina VS. et all. 2012. TIMSS 2011 Encyclopedia: Education Policy and Curriculum in Mathematics and Science. Volume 2: L – Z and Benchmarking Participants. Boston: TIMSS and PIRLS International Study Center. 							

OECD. 2014. PISA 2012 RESULTS IN FOCUS: What 15-Y Old Know and What They Can Do With What They Know. OECD Office.	
OECD. 2016. PISA 2015 RESULTS IN FOCUS. Paris: Office.	DECD
UNESCO. 2014. Education Systems in ASEAN + 6 Countr Comparative Analysis of Selected Educational Issues. Bar UNESCO Bangkok Office.	
http://timssandpirls.bc.edu/timss2015/encyclopedia/downloa center/.	ad-

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PL07	PLO8	PLO9	PLO10	PLO11	PLO12
CO1		✓										
CO2			✓									
CO3					~							
CO4					~							
CO5							~					