

UNIVERSITAS NEGERI YOGYAKARTA GRADUATE SCHOOL

MASTER OF EDUCATION IN MATHEMATICS

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Master of Education in Mathematics

MODULE HANDBOOK

Module name:	Psychology of Learning Mathematics				
Module level,if applicable:	Graduate				
Code:	PMA 8206				
Sub-heading,if applicable:	-				
Classes,if applicable:	-				
Semester:	1 st				
Module coordinator:	Dr. Djamilah Bondan Widjajanti, M.Si.				
Lecturer(s):	Dr. Djamilah Bondan Widjajanti, M. Si.				
	Endah Retnowati. Ph. D.				
Language:	Bahasa Indonesia				
Classification within the	Compulsory Course				
curriculum:	Compulsory Course				
Teaching format / class	Lectures (100 minutes/week): lectures, questions and				
hours per week during the	answers, discussions, presentations.				
semester:	Structured activities (120 minutes/week): individual				
Semester.	assignment/project, group assignment/project				
	Lecture: 100 minutes/week				
Workload:	Structured activities: 120 minutes/week				
	Self-Study : 120 minutes/week				
	Total: 5440/semester or 90.67 hours/semester				
Creditpoints:	2				
Prerequisites course(s):	-				
	After taking this course the students:				
Course Outcomes	CO1: have a deep understanding of how students learn				
Course Outcomes	mathematical concepts.				
	CO2: have a deep understanding of interpersonal and				

	Δn	notion	al factors that influ	ence student	learning			
	emotional factors that influence student learning outcomes in mathematics. CO3: able to distinguish Behaviorism and Constructivism							
	theory in mathematics learning. CO4: able to understand how students learn numbers, sets, mapping, functions, and geometry.							
	CO5: able to diagnose students' difficulties in learning							
	mathematics and design their remedial program.							
Content:	This co	urse	discusses: (1) the following	rmation of mat	hematical			
	concepts; (2) interpersonal and emotional factors that							
	influence student learning outcomes in mathematics; (3)							
	motivation to learn mathematics; (4) anxiety about							
	mathematics (math-anxiety); (5) belief in mathematics; (6)							
	Behaviorism and constructivism theory in mathematics							
	learning; (7) How students understand numbers, sets,							
	mapping	g, fur	ections, and geometry	r; (8) how to	diagnose			
	difficulties in learning mathematics; and (9) ways to reduce the							
	difficulty	of lea	arning mathematics.					
	The fina	l mark	will be weight as follow	v:				
	No	СО	Assessment	Assessment	Weight			
			Object	Technique				
	1 C	O1	a. Individual	Presentation	20%			
Study/exam achievements:	c	O2	Assignment	/ written test				
	c	О3	b. Group		25%			
		O4	Assignment					
		O5	c. Mid		25%			
			d. Final Exam		30%			
				Total	100%			
Forms of media:	Board I	_CD P	rojector, Laptop/Compt		3 2 , 4			
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Literature:	Mathematics. England: Penguin Books.							
Literature.			(1978). Teaching and		amatics in			
	D. Dell,	г. п.	(1910). Teaching and	Leaning Mallie	anauco III			

Secondary School. USA: Wm. C. Brown Company						
Publishers.						
C. Kilpatrick, J., Swafford, J & Findell, B. (Eds.). (2001).						
Adding It Up: Helping Children Learn Mathematics.						
Washington, DC: National Academy Press.						
D. Liebeck, P (1984). How Children Learn Mathematics.						
England: Penguin Books.						

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
CO1		✓							
CO2		√							
CO3		√							
CO4		✓							
CO5			✓						