

UNIVERSITAS NEGERI YOGYAKARTA GRADUATE SCHOOL

MASTER OF EDUCATION IN MATHEMATICS

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Master of Education in Mathematics

MODULE HANDBOOK

Module name:	Number Theory				
Module level,if applicable:	Graduate				
Code:	PMA8202				
Sub-heading,if applicable:	-				
Classes,if applicable:	-				
Semester:	2 th				
Module coordinator:	Dr. Agus Maman Abadi				
Lecturer(s):	Dr. Agus Maman Abadi, Dr. Dhoriva UW, Dr. R. Rosnawati				
Language:	Bahasa Indonesia				
Classification within the	Compulsory Course				
curriculum:	Compulsory Course				
Teaching format	Lecture: Face-to-face learning, presentation and discussion.				
	Structured Activities: individual project, group project				
Workload:	Lecture: 100 minutes/week				
	Structured Activities: 120 minutes /week				
WOINIOAU.	Self-Study: 120 minutes /week				
	Total: 5,440minutes/semester or 90,67 hours/semester				
Creditpoints:	2				
Prerequisites course(s):	-				
	After taking this course the students have ability to:				
Course Outcomes	 CO1.Solve problems related to number theory. CO2. Explain and sharpen the proof of properties of prime number, system of linear congruence equations, Wilson and Fermat Theorems, multiplication functions, and primitive roots. CO3. Apply the properties of prime number and congruence in cryptography 				
Content:	This course discusses the concepts and properties of the integers, prime number, Diophantine equations, system of				

	linear congruence equations, divisibility properties, Wilson and Fermat theorems, multiplicative functions, primitive roots, and cryptography.							
	The final mark will be weight as follow:							
Study/examachievements:	No	No CO Assessment Asses Object Techn			Weight			
	1	CO1 CO2	a. Individual Assignment	Presentation / written test	20%			
		CO3	b. Presentation assignment		30%			
			c. Middle test		25%			
			d. Final Exam		25%			
		Total 100%						
Formsof media:	Board, LCD Projector, Laptop/Computer							
Literature:	 [A] Rosen, K. H.,2011, Elementary Number Theory and Its Applications, sixth edition, New Jersey: Addison-Wesley [B] Burton, D.M., 2011, Elementary Number Theory, 7th edition, New York: McGraw-Hill 							

PLO and CO mapping

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