

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Science in Mathematics

MODULE HANDBOOK

Module name:	Logic and Set Theory					
Module level,if applicable:	Undergraduate					
Code:	MAT6301					
Sub-heading,if applicable:	-					
Classes,if applicable:	-					
Semester:	1 st					
Module coordinator:	Ilham Rizkianto, M.Sc					
	Ilham Rizkianto, M.Sc;					
Lecturer(s):	2. Tuharto, M.Si;					
	3. M. Fauzan, M.Sc.					
Language:	Bahasa Indonesia					
Classification within the	Compulsory course					
curriculum:	Compulsory course					
Teaching format / class	150 minutes lectures and 180 minutes structured activities per					
hours perweek during the	week.					
semester:						
	Total workload is 136 hours per semester which consists of					
Workload:	150 minutes lectures, 180 minutes structured activities, and					
	180 minutes self-study per week for 16 weeks.					
Creditpoints:	3					
Prerequisites course(s):	-					
Course outcomes:	After taking this course the students have ability to:					
	CO1. Respecting other people's views, opinions,and original					
	ideas.					
	CO2. Understand concepts in mathematical logic.					

	 CO3. Determine the relationship between sets and results of operations between sets. CO4. Proving the properties of functions, functions, and composition of functions. CO5. Understand finite and infinite sets, countable, and denumerable sets. This course discusses about statements, Truth tables, tautology, contradiction, contingency, quantifier, arguments, 						
Content:	definition of a set, operations on a set, relations, equivalence relations, functions, cardinality of a set.						
Study/exam achievements:	relations, functions, cardinality of a set. Attitude assessment is carried out at each meeting by 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 attitudeif they show it significantlycompared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of therequirements 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 Assessment Weight Technique 1 CO 1-CO a. Individual Written test 15% assignment b. Group assignment c. Quiz 10% d. Mid Exam 30% e. Final Exam 30% 100% Total 100%						
Forms of media:	Board, LCD Projector, Laptop/Computer						
Literature:	 Sukirman, 2006. Logika dan Himpunan. Yogyakarta: Hanggar Kreator Tarski, Alfred. 1994. Introduction to Logic and to the Methodology of Deductive Sciences. New York: Oxford University Press. 						

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		✓								
CO2					✓					
CO3				✓						
CO4						✓				
CO5				✓						