

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Education 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
Lecturer(s):	Ilham Rizkianto, M.Sc; Tuharto, M.Si; M. Fauzan, M.Sc.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory course
Teaching format / class hours per week during the semester:	150 minutes lectures and 180 minutes structured activities per week.
Workload:	Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks.
Credit points:	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.							
Content:	This course discusses about statements, Truth tables, tautology, contradiction, contingency, quantifier, arguments, definition of a set, operations on a set, relations, equivalence 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 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:							
Study/exam achievements:	The	final	mark will l	be weight as follow	w:			
Study/exam achievements:	The	final No	mark will I	Assessment Object	Assessment Technique	Weight		
Study/exam achievements:	The			Assessment	Assessment	15% 15% 10% 30% 100%		
Study/exam achievements: Forms of media:		No	CO 1- CO 5	Assessment Object a. Individual assignment b. Group assignment c. Quiz d. Mid Exam	Assessment Technique Written test Total	15% 15% 10% 30% 30%		

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1		✓										
CO2					✓							
CO3								✓				
CO4									✓			
CO5							✓					