

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:	Semigroup Theory
Module level,ifapplicable:	Undergraduate
Code:	MAT6344
Sub-heading,ifapplicable:	-
Classes,ifapplicable:	-
Semester:	7 th
Module coordinator:	Dr. Karyati
Lecturer(s):	Dr. Karyati
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hoursperweekduring 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.
Creditpoints:	3
Prerequisites course(s):	Abstract Algebra (MAT6311)
Course outcomes:	After taking this course the students have ability to: CO1. Demonstrate respect for other people's opinions in completing group and individual tasks CO2. Communicate ideas in solving mathematical problems in writing or verbally. CO3. Explain the concept of semigroup and its properties

CO4. Explain the propertiesspecial relation on semigroup						
CO5. Prove the properties of homomorphism in semigroup						
This course discussesthe definition and examples of						
semigroup, subsemigroup, ideal, equivalence and congruence						
relation, semigroup homomorphism, green relation, simple						
Attitude assessment is carried out at each meeting by						
observation and / or self-assessment techniques using t						
assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude						
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good	l attitude.					
The final mark will be weight as follow:						
No CO Assessment Object Assessment Weight						
1	CO1		Technique			
				30%		
	CO3	Assignment	/ written			
			test			
	CO5	d. Final Exam		25%		
			Total	100%		
Boar	d, LCD F	Projector, Laptop/Compu				
1. A. Howie, JM. 1976. An Introduction to Semigroup						
Т	heory. Lo	ondon: Academic Press				
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University of Turku.						
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	Attitute observations of the course good. The No The Boar 1. A The The State of the course good. The The The State of the course good. The The The The State of the course good. The	This course semigroup, so relation, semigroup, resemigroup, resemigrou	CO5. Prove the properties of homomorphism course discusses the definite semigroup, subsemigroup, ideal, equivalent relation, semigroup homomorphism semigroup, rehularsemigroup and semigroup and	This course discussesthe definition and exsemigroup, subsemigroup, ideal, equivalence and relation, semigroup homomorphism, green relation semigroup, rehularsemigroup and semigroup inversions. Attitude assessment is carried out at each robservation and / or self-assessment techniques assumption that basically every student has a good the student is given a value of very good or not good if they show it significantly compared to other general. The result of attitude assessment is not at of the final grades, but as one of the requirements course. Students will pass from this course if at legood attitude. The final mark will be weight as follow: No CO Assessment Object Assessment Technique	CO5. Prove the properties of homomorphism in semigroup This course discussesthe definition and examples semigroup, subsemigroup, ideal, equivalence and congruer relation, semigroup homomorphism, green relation, sim semigroup, rehularsemigroup and semigroup inverse. Attitude assessment is carried out at each meeting observation and / or self-assessment techniques using assumption that basically every student has a good attitu. The student is given a value of very good or not good attitu if they show it significantly compared to other students general. The result of attitude assessment is not a compon of the final grades, but as one of the requirements to pass course. Students will pass from this course if at least hav good attitude. The final mark will be weight as follow: No CO Assessment Object Assessment Weight Technique	

PLO and CO mapping

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