

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF MATHEMATICS EDUCATION Jalan Colombo Nomor 1 Yogyakarta 55281 Telepon(0274)565411 Pesawat 217, (0274)565411(TU),fax (0274)548203 Laman :fmipa.uny.ac.id, E-mail :humas_fmipa@uny.ac.id

Bachelor of Science in Mathematics

MODULE HANDBOOK

Module name:	Abstract Algebra					
Module level, if applicable:	Undergraduate					
Code:	MAT6311					
Sub-heading,if applicable:	-					
Classes,if applicable:	-					
Semester:	3 rd					
Module coordinator:	Musthofa, M.Sc.					
Lecturer(s):	1. Dr. Agus Maman Abadi					
	2. Dr. Karyati, Musthofa, M.Sc.					
Language:	Bahasa Indonesia					
Classification within the	Compulsory Course					
curriculum:						
Teaching format / class	150 minutes lectures and 180 minutes structured activities per					
hoursperweekduring the	week.					
semester:	WOOK.					
	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):	Number Theory (MAT6205)					
	After taking this course the students have ability to:					
	CO1. Demonstrate collaborative attitude and independence in					
Course outcomes:	carrying out individual tasks and group assignments					
	CO2. Show the truth of a problem related to the group and its					
	properties through mathematical verification					

	CO3. Mastering group concepts, group properties and group homomorphism								
	CO4. Solve mathematical problems using group concepts and group properties								
	This course contains basic concepts of group, subgroup,								
Content:	permutation group, cyclic group, coset, Lagrange theorem,								
	normal subgroup, factor group, group homomorphism and the								
	main group homomorphism theorem.								
	CO1: Attitude assessment is carried out at each meeting by								
Study/exam achievements:	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								
olddy/cxam donievementa.	good attitude.								
	The final mark will be weight as follow:								
	No CO Assessment Object Assessment Weight								
	Technique 1 CO2, a. Individual Assignment Presentation 15%								
	CO3 andb.Group Assignment/ written test15%								
	CO4 C. Quiz 15%								
	d. Mid 25%								
Forms of media:	d. Mid25%e. Final Exam30%								
Forms of media:	d. Mid 25% e. Final Exam 30% Total 100%								
Forms of media:	d. Mid 25% e. Final Exam 30% Total Board, LCD Projector, Laptop/Computer								
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Forms of media:	d. Mid 25% e. Final Exam 30% Total Board, LCD Projector, Laptop/Computer 1. Gallian, J.A 2010. Contemporary Abstract Algebra. Seventh Edition. Eddison Wesley Publishing Company.								
Forms of media: Literature:	d. Mid 25% e. Final Exam 30% Total Total Board, LCD Projector, Laptop/Computer 1. Gallian, J.A 2010. Contemporary Abstract Algebra. Seventh Edition. Eddison Wesley Publishing Company. 2. Malik, D.S., Mordeson, J.M., Sen, M.K 1997.								
	d. Mid 25% e. Final Exam 30% Total 100% Board, LCD Projector, Laptop/Computer 100% 1. Gallian, J.A 2010. Contemporary Abstract Algebra. Seventh Edition. Eddison Wesley Publishing Company. 2. Malik, D.S., Mordeson, J.M., Sen, M.K 1997. Fundamentals of Abstract Algebra. Singapore: McGraw-								
	d. Mid 25% e. Final Exam 30% Total 100% Board, LCD Projector, Laptop/Computer 100% 1. Gallian, J.A 2010. Contemporary Abstract Algebra. Seventh Edition. Eddison Wesley Publishing Company. 2. Malik, D.S., Mordeson, J.M., Sen, M.K 1997. Fundamentals of Abstract Algebra. Singapore: McGraw- Hill Companies, Inc.								
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	Saddle River: Prentice-Hall Int. Inc.				
5.	Stinson, D.R. 2006. Crptography, Theory And Practice.				
	Third Edition. New York: Chapman and Hall/CRC.				

PLO and CO mapping

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