MODULE HANDBOOK

Module Name:	Abstract Algebra 1
Module Level:	Sarjana (S-1) / Bachelor
Abbreviation, if applicable:	8420203010
Sub-heading, if applicable:	-
Course included in the module, if applicable:	-
Semester/term:	3/ Second year
Module Coordinator(s):	Budi Priyo Prawoto, M.Si
Lecturer(s):	Dr. R. Sulaiman, M.Si Dr. Endah Budi Rahaju, M.Pd Budi Priyo Prawoto, M.Si Dini Kinati Fardah, M.Pd
Language:	Indonesia
Classification within the curriculum:	Compulsory course/ ~~elective studies~~
Teaching format/class hours per week during the semester	Teaching format: lectures, tutorial assignment, and individual study. 3 x 170 minutes = 510 minutes = 8.5 hours lectures
Workload:	15 weeks per semester consisting of: ➢ 2.5 hours lectures (3 x 50 minutes) per week, ➢ 3 hours tutorial assignments (3 x 60 minutes) per week, ➢ 3 hours individual study (3 x 60 minutes) per week, Total workload : 14x3x170 minutes = 7,140 minutes = 4.76 ECTS*
Credit Point:	3
Requirements:	Elementary Number Theory Elementary Linear Algebra
Learning Goals:	**Knowledge (KNO-1)** CLO-1: Demonstrate mastery of the concept of group, subgroup, normal subgroup, factor group, and group homomorphism **Skill (SKI-2)** CLO-2: Apply the group concept to identify which set is a group or not CLO-3: Use the group concept in proving the truth of several statements related to the group

Content:	Set theory, group theory, classification of group, subgroup, normal subgroup, factor group, and group homomorphism.
Study/exam achievements	➢ Students are considered competent and pass if the final score calculated from the score of midterm exam, assignments, participation, and final exam is at least 55 or C. ➢ Final score is calculated as follows: ➢ 20% midterm exam + 30% assignments + 20% participation + 30% final exam ➢ Final index is defined as follow: (table below)

Index	Converted Score	Score Range
A	4.00	$85 \leq A \leq 100$
A-	3.75	$80 \leq A- < 85$
B+	3.50	$75 \leq B+ < 80$
B	3.00	$70 \leq B < 75$
B-	2.75	$65 \leq B- < 70$
C+	2.50	$60 \leq C+ < 65$
C	2.00	$55 \leq C < 60$
D	1.00	$40 \leq D < 55$
E	0.00	$0 \leq E < 40$

Forms of Media	Slides and LCD projectors, whiteboard
Literature	[1] Gallian, J. 2011. *Contemporary Abstract Algebra*, Boston Houghton Mifflin College Div. [2] Herstein, I.N. 1975. Topics in Algebra 2nd Edition. New York John Wiley and Sons. [3] Herstein, I.N. 1990. *Abstract Algebra*. New York John Wiley and Sons.
Note	*Total hours per 1 credit in 1 semester={(1 credit x 170 minutes x 14 weeks)/60 minutes}=39,67 hours. Each ECTS equals with 25 hours therefore 1 credit in 1 semester equals 1,59 ECTS.