MODULE HANDBOOK

Module Name:	Foundations of Mathematics			
Module Level:	Sarjana (S-1) / Bachelor			
Abbreviation, if	8420203043			
applicable:				
Sub-heading, if	-			
applicable:				
Course included in the	-			
module, if applicable:				
Semester/term:	1/ First year			
Module Coordinator(s):	Budi Priyo Prawoto, M.Si			
Lecturer(s):	Dr. Masriyah, M.Pd.			
	Budi Priyo Prawoto, M.Si.			
	Nina Rinda Prihartiwi, M.Pd.			
Language:	Indonesia			
Classification within	Compulsory course/ elective studies			
the curriculum:				
Teaching format/class	Teaching format: lectures, tutorial assignment, and individual			
hours per week during	study. 3 x 170 minutes = 510 minutes = 8.5 hours lectures			
the semester				
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:	-			
Learning Goals:	Knowledge			
	CLO-1: Explain the basic notions of mathematics as a deductive-			
	axiomatic structure, structured thinking, reasoning, and			
	rational-deductive logic, set, relationship, function, logic,			
	quantor, conclusion, and validity of proof or conclusion.			
	Skill			
	CLO-2: Mathematically state a statement problem in the form of a			
	mathematical relation, function, or statement and solve it			
	Competency			
	CLO-3: Prove mathematical statements using several suitable			
	methods			

Content:		System and deductive-axiomatic structure, logical operation, quantifier, making a conclusion, set theory, relation, function, and POSET.				
Study/exam achievements	calculated participatio ➤ Final score ➤ 20% midter 30% final e	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				
	Index	Converted Score	Score Range	1		
	A	4.00	85≤ <i>A</i> ≤100	_		
	A-	3.75	80≤ <i>A</i> − <85	-		
	B+	3.50	75≤ <i>B</i> + <80	-		
	В	3.00	7 0≤ <i>B</i> <75	-		
	B-	2.75	65≤ <i>B</i> − <70			
	C+	2.50	60≤ <i>C</i> +<65	-		
	С	2.00	55≤ <i>C</i> <60	-		
	D	1.00	4 0≤ <i>D</i> <55			
	E	0.00	0≤ <i>E</i> <40			
Forms of Media	Video, Slides ar	Video, Slides and LCD projectors, whiteboard				
Literature	Publication [2] Masriyah, 2 Press. [3] Yunus, M. 2 Ilmu. [4] Kunnen, K.	[3] Yunus, M. 2007. Logika: Suatu Pengantar. Yogyakarta: Graha				
Note	14 weeks)/60 m Each ECTS equ	*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.				