MODULE HANDBOOK

Module Name:	Fuzzy Theory				
Module Level:	Sarjana (S-1) / Bachelor				
Abbreviation, if	8420203223				
applicable:					
Sub-heading, if	-				
applicable:					
Course included in the	-				
module, if applicable:					
Semester/term:	/ Fourth year				
Module Coordinator(s):	Prof. Dr. Dwi Juniati, M.Si				
Lecturer(s):	Prof. Dr. Dwi Juniati, M.Si				
	Muhammad Jakfar, S.Si., M.Si.				
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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:				
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	> 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 linear algebra				
Learning Goals:	Knowledge (KNO-1)				
	CLO-1: Demonstrate mathematical knowledge and insight related				
	to fuzzy sets, the concept of operations on fuzzy sets, fuzzy logic				
	and fuzzy relations and their properties.				
	Skill (SKI-2)				
	CLO-2: use basic mathematical principles (regarding fuzzy the concept of operations on fuzzy sets, fuzzy logic and f				
	relations and their properties) in solving problems, especially in the applications.				
Content:	Fuzzy sets, the concept of operations on fuzzy sets, fuzzy logic and				
	fuzzy relations and their properties.				
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Study/exam achievements	calcuparti Fina 20% 30%	➤ 20% midterm exam + 30% assignments + 20% participation + 30% final exam				
		Index	Converted Score	Score Range		
		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	70≤ <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	40 ≤ <i>D</i> <55		
		Е	0.00	0≤ <i>E</i> <40		
Forms of Media	Slides an	Slides and LCD projectors, whiteboard				
Literature	Berlin [2] Klir, Theorem [3] Ross,	 [1] Zimmermann, 1996, Fuzzy Set Theory and Its Applications. Berlin. Kluwer Academic Publisher,. [2] Klir, G.J. & Yuan, B. 2001. Fuzzy Sets and Fuzzy Logic: Theory and Applications. New York. Prentice-Hall. [3] Ross, J.Timothy, 2004, Fuzzy Logic with Engineering Aplications. New York. John Wiley and Sons. 				
Note	14 weeks Each EC	*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.				