

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:	Fuzzy Set Theory
Module level, if applicable:	Undergraduate
Code:	MAT6340
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	6 th
Module coordinator:	Dr. Agus Maman Abadi
Lecturer(s):	Dr. Agus Maman Abadi
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours perweek during 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):	Logic and Set (MAT6301)
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. Prove the properties of operation and relation in fuzzy

	r	0.04					
		set					
	CO4. Draw conclusions from a collection of fuzzy logic						
	CO5. Use fuzzy logic to solve related problems						
	CO6. Use software to solve related problems						
	This course contains the basic concepts of fuzzy sets, fuzzy						
	set operations, alpha cut, fuzzy relations and fuzzy logic, and						
Content:	examples of applications in the control system, decision					ion	
	maki	ing and p	rediction.				
Study/over eshiever	obse assu The they gene of th cours	Attitude assessment is carried out at each meeting by 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 attitudeif they show it significantlycompared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of therequirements to pass the course. Students will pass from this course if at least have a good attitude. The final mark will be weight as follow:					
Study/exam achievements:	The	final mar	k will be weight as follo	w:			
Sludy/exam achievements:	The No	final mar	k will be weight as follow Assessment Object	Assessment	Weight		
Sudy/exam achievements:	No	CO	Assessment Object	Assessment Technique			
Sludy/exam achievements:		CO CO1 CO2,	-	Assessment	Weight 10% 25%		
Sudy/exam achievements:	No	CO1 CO2, CO3	Assessment Object presentation a. Individual Assignment	Assessment Technique Observation Presentation / written	10% 25%		
Sudy/exam achievements:	No	CO1 CO2, CO3 CO4	Assessment Object presentation a. Individual Assignment b. Group Assignment	Assessment Technique Observation Presentation	10% 25% 10%		
Sudy/exam achievements:	No	CO1 CO2, CO3 CO4 and	Assessment Object presentation a. Individual Assignment b. Group Assignment c. Mid	Assessment Technique Observation Presentation / written	10% 25% 10% 20%		
Sudy/exam achievements:	No	CO1 CO2, CO3 CO4	Assessment Object presentation a. Individual Assignment b. Group Assignment c. Mid d. Quiz	Assessment Technique Observation Presentation / written	10% 25% 10% 20% 10%		
Sudy/exam achievements:	No	CO1 CO2, CO3 CO4 and	Assessment Object presentation a. Individual Assignment b. Group Assignment c. Mid	Assessment Technique Observation Presentation / written test	10% 25% 10% 20% 10% 25%		
Forms of media:	No 1 2	CO1 CO2, CO3 CO4 and CO5	Assessment Object presentation a. Individual Assignment b. Group Assignment c. Mid d. Quiz	Assessment Technique Observation Presentation / written test Total	10% 25% 10% 20% 10%		
	No 1 2 Boar	CO1 CO2, CO3 CO4 and CO5	Assessment Object presentation a. Individual Assignment b. Group Assignment c. Mid d. Quiz e. Final Exam	Assessment Technique Observation Presentation / written test Total uter	10% 25% 10% 20% 10% 25% 100%		
	No 1 2 Boar 1.	CO CO1 CO2, CO3 CO4 and CO5 rd, LCD F	Assessment Object presentation a. Individual Assignment b. Group Assignment c. Mid d. Quiz e. Final Exam Projector, Laptop/Comp	Assessment Technique Observation Presentation / written test Total uter	10% 25% 10% 20% 10% 25% 100%	-	
Forms of media:	No 1 2 Boar 1.	CO CO1 CO2, CO3 CO4 and CO5 rd, LCD F	Assessment Object presentation a. Individual Assignment b. Group Assignment c. Mid d. Quiz e. Final Exam Projector, Laptop/Comp Clair, U.S, Yuan B. 1 fons and Applications.	Assessment Technique Observation Presentation / written test Total uter	10% 25% 10% 20% 10% 25% 100%	-	
	No 1 2 Boar 1.	CO CO1 CO2, CO3 CO4 and CO5 rd, LCD F Klir, G.J. Foundati Hall, Inc.	Assessment Object presentation a. Individual Assignment b. Group Assignment c. Mid d. Quiz e. Final Exam Projector, Laptop/Comp Clair, U.S, Yuan B. 1 fons and Applications.	Assessment Technique Observation Presentation / written test Total uter 997. Fuzzy S New Jersey	10% 25% 10% 20% 10% 25% 100% Set Theor : Prentic	ce-	
Forms of media:	No 1 2 Boar 1. 2.	CO CO1 CO2, CO3 CO4 and CO5 rd, LCD F Klir, G.J. Foundati Hall, Inc. Wang, I	Assessment Object presentation a. Individual Assignment b. Group Assignment c. Mid d. Quiz e. Final Exam Projector, Laptop/Comp Clair, U.S, Yuan B. 1 fons and ApplicationsX1997. A Course	Assessment Technique Observation Presentation / written test Total uter 1997. Fuzzy S New Jersey in Fuzzy Sy	10% 25% 10% 20% 10% 25% 100% Set Theor : Prention	ce-	
Forms of media:	No 1 2 Boar 1. 2.	CO CO1 CO2, CO3 CO4 and CO5 rd, LCD F Klir, G.J. Foundati Hall, Inc. Wang, I	Assessment Object presentation a. Individual Assignment b. Group Assignment c. Mid d. Quiz e. Final Exam Projector, Laptop/Comp Clair, U.S, Yuan B. 1 fons and Applications.	Assessment Technique Observation Presentation / written test Total uter 1997. Fuzzy S New Jersey in Fuzzy Sy	10% 25% 10% 20% 10% 25% 100% Set Theor : Prention	ce-	

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		✓								
CO2				✓						
CO3					✓					
CO4					✓					
CO5							✓			
CO6										✓