

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:	Information system and databases					
Module level, if applicable:	Undergraduate					
Code:	MAT6321					
Sub-heading,if applicable:	-					
Classes,if applicable:	-					
Semester:	4 th					
Module coordinator:	Kuswari Hernawati, M.Kom					
Lecturer(s):	1. Kuswari Hernawati, M,.Kom					
	2. Dr. Sri Andayani, M. Kom,					
	3. Nurhadi Waryanto, M.Eng					
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:	WEEK.					
	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):	Algorithm and Programming (MAT6310)					
	After taking this course the students have ability to:					
Course Outcomes	CO1. Respecting differences of opinion and different ways of					
	solving database problems in information systems.					
	CO2. Using a systematic and innovative logic of thinking and					

	abouing on attitude of independence in corrige out						
	showing an attitude of independence in carrying out						
	individual tasks and group assignments to produce						
	works in the form of information systems compiled						
	based on needs analysis in the field						
	CO3. Explaining database concepts, relational data models,						
	database formation techniques and normalization, use						
	query language (sql) for searching, sorting, filte deleting and updating data and the basics of information						
	system development, as a basis for further development						
	at the level postgraduate.						
	CO4.Able to compile algorithms with correct and efficient						
	logic to build information systems						
	CO5.Take steps in developing information systems in						
	accordance with the algorithms prepared, based on						
	analysis of needs, information and data in the field.						
	CO6 Able to choose and utilize the development of ICT both						
	software and hardware that are suitable for developing						
	information systems						
	This course discusses understanding and mastery of						
	database concepts, relational data models, database						
	formation techniques and normalization, the use of query						
Content:	languages (sql) for searching, sorting, filtering, deleting and						
	updating data and creating database application programs in						
	developing data-based processing systems computers and						
	the use of databases in information systems						
	CO1: 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						
Study/exam achievements:	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.						
	9000 alliado.						

	The final mark will be weight as follow:							
	No	СО	Assessment Object	Assessment Technique	Weight			
	1	CO2, CO3,	a. Individual Assignment	Presentation / written	10%			
		CO4 and CO5	b. Group Assignment c. Quiz	test	20% 20% 20%			
		005	d. Mid e. Final Exam		30%			
				Total	100%			
Forms of media:	Boar	d, LCD F	Projector, Laptop/Compu	uter				
	1. Stephens, Rod. Beginning Database Design Solutions.							
	2009. Indianapolis : Wiley Publishing, Inc.							
	2. Connolly, Thomas M & Begg, Carolyn E. Database							
	Systems: A Practical Approach to Design, Implementation,							
Literature:	and Management. 2014. England:Pearson Education							
	Limited							
	3. Stair, Ralph M & Reynolds, George W. Fundamentals of							
	Information Systems Eighth Edition. 2016. Course							
	Technology, Cengage Learning							
	4. Kuswari Hernawati. 2015. Sistem Informasi dan Basis							
	Data. Hand Book.							

PLO and CO mapping

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