

Module designation	Information Systems and Databases			
Semester(s) in which the module is taught	4			
Person responsible for the module	Bambang Sumarno M.Kom.			
Language	Bahasa Indonesia			
Relation to curriculum	Compulsory course			
Teaching methods	150 minutes lectures and 180 minutes structured activities per week.			
Workload (incl. contact hours, self-study hours)	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.			
Credit points	3			
Required and recommended prerequisites for joining the module	MAT6307 - Algorithm and Programming			
Module objectives/intended learning outcomes	CO1 Respecting differences of opinion and different ways of solving			
	database problems in information systems			
	CO2 Using systematic and innovative thinking and demonstrating			
	independence in carrying out individual and group tasks			
	to produce work in the form of information systems based on			
	analysis of field requirements			
	CO3 Explaining database concepts, relational data models, database			
	creation and normalization techniques, the use of query languages (SQL) for searching, sorting, filtering, deleting, and updating data, and the basics of information system development as a foundation for further development at the postgraduate level.			
	CO4 Able to develop algorithms with correct and efficient logic to			
	build information systems			
	CO5 Take steps to develop information systems in accordance with the			
	algorithms developed, based on needs analysis, information, and data in the field			
	CO6 Able to select and utilize ICT developments, both software			
	and hardware, that are suitable for developing information systems.			



Content	This course provides an understanding and mastery of database concepts, relational data models, database creation techniques and normalization, the use of query languages (SQL) for searching, sorting, filtering, deleting, and updating data, as well as the creation of database application programs in the development of computer-based data processing systems.					
Examination forms	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.					
Study and examination requirements	The student is given a value of very good or not good attitude if they					
	show it significantly compared to other students in general. The result of					
	attitude assessment is not a component of the final grades, but as one					
	of the requirements 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:					
	No	СО	Assessment Object	Assessment Technique	Weight	
	1	CO 1	a. Presentat	Observation	5%	
			ion b. Discussio		10%	
			n			
	2	CO 2, CO 3,	a. Individual	Written	10%	
		CO 4	assignme nt		10% 20%	
			b. Group		20%	
			assignme		25%	
			nt			
			c. Quiz d. Midterm			
			e. Final test			
			Total		100%	
Reading list	1. A. Stephens,Rod. Beginning Database Design Solutions. 2009. Indianapolis: Wiley Publishing, Inc.					
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