

UNIVERSITAS GADJAH MADA

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Bachelor in Computer Science

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MODULE HANDBOOK

Module name	Decision Support Systems
Module level	Undergraduate
Code	MII-213406
Courses (if applicable)	
Semester	Fall (even)
Contact person	Dr. Sri Mulyana, M. Kom.
Lecturer	1. Prof. Dra. Sri Hartati, M. Sc., Ph.D.
	2. Drs. Retantyo Wardoyo, M. Sc., Ph. D.
	3. Dr. Sri Mulyana, M. Kom.
Language	Bahasa Indonesia & English
Relation to curriculum	Undergraduate degree program, compulsory, 6th semester.
	2. International undergraduate program, compulsory, 6th semester.
Type of teaching,	1. Undergraduate degree program: lectures, < 60 students,
contact hours	2. International undergraduate program: lectures, < 30 students.
Workload	1. Lectures: 3 x 50 = 150 minutes per week.
	2. Exercises and Assignments: 2 x 50 = 100 minutes per week.
	3. Private study: 1 x 50 = 50 minutes per week.
Credit points	3 credit points (sks).
Requirements according	A student must have attended at least 75% of the lectures to sit in the exams.
to the Examination	
regulations	
Recommended	Programming
prerequisites	

Learning outcomes	After completing this module, a student is expected to:									
(course outcomes) and	CO1. Students are able to distinguish DSS and other computer systems.									
their corresponding	CO2. Students are able to understand the decision support approach with the									
PLOs	system, able to understand the phases of decision making.									
. 200	CO3. Students are able to understand the SPK configuration, understand the									
	characteristics and capabilities of the DSS, understand the structure of the DSS component.									
	CO4. Students are able to understand alternative decision-making structures. Students are able to understand the basic concepts of MSS modelling. CO5 Students are able to understand quantitative decision-making modelling. CO6 Students can apply models of decisions and their applications.									
	PLO CO1 CO2 CO3			CO4	CO5	CO6				
	Program PLO1	CO1	CO2	CO3	CO-7	003	200			
	Learning PLO2	٧	٧	٧	٧	٧				
	Outcome PLO3					٧	٧			
	(PLO) PLO4				٧	٧				
	PLO5						٧			
	 Management Support System (MSS) Decision Support System Concept Decision Management in business and other fields Capabilities and Characteristics of Decision Support Systems Basic Components of a Decision Support System Data Management in Decision Support Systems Decision-making Models in Decision Support Systems Weighting and Scoring Simple Additive Weighting (SAW), Weighted Product (WP), Profile Matching (PM), TOPSIS, Analytic Hierarchal Process (AHP) Group Decision Support Systems (GDSS): Computing and Technology Development of Decision Support Systems 									
Study and examination	The evaluation is done in 3 forms, namely:									
requirements and forms	1. Trial, either midterm or semester test,									
of examination	2. Three tasks, including in				_					
	3. One group assignment to be completed within a certain timeframe,									
	Assessment is done using benchmark assessment, with the aim of measuring the level of student understanding related to the target and class rank.									
Media employed	e-learning Platform (eLOK), LCD, whiteboard, and websites.									

Assessments and				•		•	•	•
Evaluation	Туре	Percentage	CO1	CO2	CO3	CO4	CO5	CO6
	Task 1	10	٧					
	Task 2	10		٧				
	Mid Test	30	٧	٧	٧			
	Task 3	10				٧		
	Group Task 1	15				٧	٧	٧
	Final test	25			٧	٧	٧	
	Total	100						
Reading List	Systems. Pear	Systems. Pearson/ Prentice Hall. 2005. 2. Gray, P., "Decision Support and Executive Information Systems", Prentice Hall.						

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