MODULE HANDBOOK

Master Program in Computer Science Department of Computer Science and Electronics Faculty of Mathematics and Natural Sciences Universitas Gadjah Mada

Semantic Search and Information Retrieval

Module name	Semantic Search and Information Retrieval						
Module level	Master						
Code	MII-6835						
Courses	Semantic Search and Information Retrieval						
(if applicable)							
Semester	1						
Contact person	Anny Kartika Sari, M.Sc.,Ph.D.						
Lecturer	Anny Kartika Sari, S.Si., M.Sc., Ph.D.						
	Azhari, Dr., M.T.						
Language	Bahasa Indonesia						
Relation to	master program, elective, 1st semester.						
curriculum							
Type of teaching,	Lectures, < 30 students						
contact hours							
Workload	1. Lectures: 3 x 50 = 150 minutes (2.5 hours) per week.						
	2. Exercises and Assignments: $3 \times 60 = 180$ minutes (3 hours) per week.						
	3. Private study: 3 x 60 = 180 minutes (3 hours) per week.						
Credit points	3 credit points (SKS).						
Requirements	A student must have attended at least 75% of the lectures to sit in the exams.						
according to the							
examination							
regulations							
Recommended	-						
prerequisites							
Learning outcomes	After completing this module, a student is expected to:						
and their	CO	Description	PLO				
corresponding	CO-1	Be able to explain the architecture of a Search Engine	PLO-3				
PLOs		and its components.	1200				
	CO-2	Be able to explain the stages to develop an index and	PLO-4				
		be able to do text acquisition, text transformation, and	120 1				
		index creation.					
	CO-3	Be able to explain different kind of queries and rank	PLO-4				
		them					
	CO-4	Be able to evaluate Search Engine and question	PLO-4				
		answering sistem	120 1				
		•					
	CO-5	Be able to explain the concepts related to web semantic	PLO-4,				
		and ontology and apply the concepts to develop an	PLO-9				
		ontology.					
	CO-6	Be able to explain the components of a semantic search	PLO-3,				
		engine and question answering system.					

					PLC	D-9		
Content		provides the stu- es of semantic sea		methods used	in information	n retrieval		
Study and examination requirements and forms of examination	• Ass	lass exercises ignments l-term examinations	ons					
	1.00.11.11							
Media employed Assessments and	LCD, blackboard, and websites.							
Evaluation Evaluation	СО	Assessment Methods	Supported PLO	Type	Percentage	Total		
	CO-1	Question no 1 in midterm exam	PLO-3	Summative	10%	10%		
	CO-2	Question no 2 in midterm exam	PLO-4	Summative	10%	15%		
		Assignment 1	PLO-4	Formative	5%			
	CO-3	Question no 3 in midterm exam	PLO-4	Summative	10%	15%		
		Assignment 2	PLO-4	Formative	5%			
	CO-4	Question no 4 in midterm exam	PLO-4	Summative	10%	20%		
		Question no 1 in final exam	PLO-4	Summative	10%			
	CO-5	Question no 2 in final exam	PLO-4	Summative	10%	25%		
		Question no 3 in final exam	PLO-4	Summative	10%			
		Assignment 3	PLO-9	Formative	5%			
	CO-6	Question no 4 in final exam	PLO-3	Summative	10%	15%		
		Assignment 4	PLO-9	Summative	5%			
Reading List	publishManninRetrievaHang Li	hury, G. G., Ir ing, 2010. g, C.D., Raghav al. Cambridge Ur i, and Jun Xu, Ser o Alberto Pozzi,	an, P., Schut niversity Press mantic Matchi	ze, H., An In , 2009. ng in Search, 2	troduction to	Informati		

		1st Edition, Morgan Kaufmann, 2016.
	•	Bast, H., Buchhold, B., & Haussmann, E., Semantic search on text and
		knowledge bases, 2016.