Case-Based Reasoning

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Module name	Case-Based Reasoning		
Module level	Undergraduate		
Code	IF221219		
Courses (if	Case-Based Reasoning		
applicable)			
Semester	5/6		
Lecturer	Budi Nugroho, S.Kom, M.Kom (PIC)		
	Made Hanindia Prami S, S.Kom, M.Cs		
Language	Bahasa Indonesia and English		
Relation to	Elective; 5th/6th semester		
curriculum			
Type of teaching,	Lectures, < 60 students		
contact hours			
Teaching	Project-based learning, problem-based learning		
Methods			
Workload	1. Lectures: 3 sks x 50 = 150 minutes (2 hours 30 minutes) per		
	2. Exercises and Assignments: 3 x 60 = 180 minutes (3 hours) p	er week.	
Cuadit mainta	3. Private study: 3 x 60 = 180 minutes (3 hours) per week		
Credit points	3 credit points (sks) A student must have attended at least 80% of the lectures to s	it in the avenue	
Requirements according to the	A student must have attended at least 80% of the lectures to s	it in the exams.	
examination			
regulations			
Mandatory	Artificial Intelligence		
prerequisites	Artificial intelligence		
Courses	This course places a strong emphasis on maintaining balance between theory		
description	and practical implementation in the creation of intelligent systems through a		
description	case-based approach.	otems timough u	
Learning	After completing this module, a student is expected to:		
outcomes and	CO1 Students possess the ability to comprehend and	PLO9,PLO10	
their	expound upon the concept of the case-based reasoning	, , ,	
corresponding	approach within an application. (C2, A2)		
PLOs	CO2 Students possess the capability to elucidate and fully	PLO9,PLO10	
	grasp the constituent components of Case-Based Reasoning		
	(CBR). (C2, A2)		
	CO3 Students possess the ability to comprehend and put	PLO9,PLO10	
	into practice multiple algorithms suitable for the		
	construction of CBR applications. (C3, A4, P4)		
	CO4 Students possess the competence to create a	PLO9,PLO10	
	CBR-based application. (C3, A4, P4)		
Content	Theoretical Framework and Concepts of Case-Based Re	• • •	
	Constituent Components of CBR; A Range of Algorithms		
	Constructing a CBR System; CBR Implementation Aligned with Case Studies		
Media employed	LCD, whiteboard, websites, books (as references), online meeting, etc.		
Assessments and	One written Midterm assessment (60 minutes) and one final oral exam (30		
Evaluation	minutes), two short computer-based quizzes, takehome written assignments		
Study and	The final grade in the module is composed of:		
examination	• Two short computer-based quizzes: 15% x 2 = 30%		

requirements and forms of examination	 Take-home written assignments: 15% Written Midterm assessment: 25% Final oral exam: 30% 	
	Students must have a final grade of 55.6% or higher to pass.	
Reading List	 S. Massie and S. Chakraborti, Eds., Case-Based Reasoning Research and Development, ICCBR 2023, Aberdeen, UK, 2023 J. A. Recio-Garcia, M. Orozco-del-Castillo, and D. Bridge, Eds., Case-Based Reasoning Research and Development, Merida, Mexico, 2024 M. T. Keane and N. Wiratunga (Eds.), Case-Based Reasoning Research and Development, Nancy, France, 2022. [Online]. Available: https://doi.org/10.1007/978-3-031-14923-8 	