MODULE HANDBOOK

No alula Nassa	Community Contains Organization			
Module Name	Computer System Organization			
Module level, if	Undergraduate			
applicable				
Code, if applicable	02143142041			
Subtitle, if applicable	-			
Courses, if applicable	-			
Semester(s) in which	5			
the module is taught				
Person responsible for	Nurcahya Pradana Taufik Prakisya (@staff.uns.ac.id)			
the module				
Lecturer	Nurcahya Pradana Taufik Prakisya			
Language	Indonesian and English			
Relation to curriculum	Undergraduate degree program, compulsory course in 5th semester			
Type of teaching,	Undergraduate degree program, < 40 students			
contact hours				
Workload	Lectures: 2 x 50 = 100 minutes (1 hours 40 minutes) per week			
	Exercise and Assignments: 2 x 60 = 120 minutes (2 hours) per week			
	Private study: 2 x 60 = 120 minutes (2 hours) per week			
Credit points	2 SKS			
Requirements	A student must have attended at least 75% of the lectures to sit in the			
according to the	exams			
examination				
regulations				
Recommended				
Prerequisites				
Module	After completing this module, a student is expected to:			
objectives/intended	No Course Learning Outcome PLO			
learning outcomes	1 Able to explain the differences in the PLO-11			
	architecture and organization of computer			
	systems			
	2 Able to understand architectural and PLO-11			
	organizational concepts of computer			
	systems, how processors work, memory,			
	registers, system buses, control units,			
	assembly language, instructions. addressing			
	and computer arithmetic.			
	3 Able to analyze the influence of hardware PLO-11			
	and software elements to support computer			
	system performance			

Content	This Computer Architecture and Organization course discusses the			
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	concept of the structure of the main functions in a computer system and			
	the workings of the bus system, internal, external memory, and control			
	units on a computer system.			
	The concept of the structure and function of the main computer			
	Introduction to Computer Organization			
	Bus System			
	Memory			
	Storage Arrays			
	Operation Support			
	 Input/Input and Output/Output 			
	Instruction Set			
	Addressing Mode			
	CPU Structure and Function			
	The concept of the Bus system			
	Data storage concept, internal/external memory			
	Control unit concept			
Study and	Forms of examination:			
examination	No	Course Learning Outcome	PLO	
requirements and	1	Able to explain the differences in the	Essay Test (20%)	
forms of Examination		architecture and organization of computer		
		systems		
	2	Able to understand architectural and	Essay Test (40%)	
	-	organizational concepts of computer	25547 1656 (1676)	
		systems, how processors work, memory,		
		registers, system buses, control units,		
		assembly language, instructions. addressing		
		and computer arithmetic.		
	3	Able to analyze the influence of hardware	Essay Test(40%)	
	3	•	Essay lest(40%)	
		and software elements to support computer		
	 	system performance		
	1.65			
Media employed	LCD, Whiteboard, PowerPoint Slide Presentation, Practical Guidance			
		o, websites, etc.		
Reading list		, ' ' '		
	Edition, Pearson Prentice Hall 2005			
	2. Willam Stallings, Organisasi & Arsitektur Komputer Edisi keenam,			
	Prentice Hall 2003			
	3. Syahrul, Organisasi dan Arsitektur Komputer, Andi offset 2010			