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Universitas Negeri Surabaya Faculty of Engineering, Electrical Engineering Undergraduate Study Program

Document Code

UNESA	A																			
				SEM	E	STI	ER I	LE	ΑF	RN	INC	3 F	PL	AN	l					
Courses		CODE			Course Family		Credit Weight			SEM	ESTER		ompilati ate	ion						
Compute Architect		ganization and		2020103097			Compulsory Study Program Subjects		T=	:3	P=0	ECTS=4.77		4	M	ay 1, 20	23			
AUTHOR	RIZAT	ION		SP Develop	er					Course Cluster Coordinator			Study Program Coordinator							
				Farid Baskoro, S.T., M.T. ; Sayyidul Aulia Alamsyah, S.T., M.T.				dul	Prof. Dr. I Gusti Putu Asto B., M.T.			Dr. Lusia Rakhmawati, S.T., M.T.			S.T.,					
Learning model		Case Studies														I				
Program	1	PLO study program that is charged to the course																		
Learning Outcome	y es	Program Objectives (PO)																		
(PLO)		PO - 1																		
		PLO-PO Matr	ix																	
		PO-1 PO Matrix at the end of each learning stage (Sub-PO)																		
				P.O	P.O							We	eek							
					1	2	3	4	5	6	7	8	9	10	11 12	13	14	15	16	
			PC	0-1																
Short Course Descript	tion	This course is students are es 6, the intercon external memounderstand mo	kpected nection ry, I/O	d to be able to structure of modules and	o kn com CP	ow an iputer U as	nd under r comp part of	ersta onen com	ind t its k ipute	he ev nowr er cor	olution as the opening the original transfer of the original transfer original transfer of the original transfer orig	n ar ne bu ents.	nd p us s , O	erforn system perati	nance of cor n, memory, on ng System S	nputer especi Suppo	s from g ally cach rt, Comp	ene ie, i uter	rations nternal arithme	1 to and
Reference	ces	Main :																		
		1. Willian	n Stallir	llings. 2010. Computer Organization and Architecture. 8th Edition. New Jersey: Pearson Education, Inc.																
		Supporters:																		
		1. Brian I	< Willia	ıms & Stacey	C S	awye	r. 2010). Usi	ing lı	nforn	nation	Tec	hno	logy.	New York: N	1cGra\	v-Hill			
Supporti lecturer	ing	Dr. Farid Bask Sayyidul Aulia																		
Week-		al abilities of h learning ge		Evaluation				Le Stud			Help Learning, Learning methods, Student Assignments, [Estimated time]			ma	Learning materials		ssessm Veight (
		b-PO)	O) Ir			Crite	ria & F	orm			ine (ine)		On	line (online)	References]	3 ()			

1	Mastering the basic concepts of computer organization and architecture	1.Mastering computer architecture concepts 2.Mastering organizational concepts in computers	Criteria: Evaluation Rubric Form of Assessment: Participatory Activities	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Material: Meeting material 1 Reader: William Stallings. 2010. Computer Organization and Architecture. 8th Edition. New Jersey: Pearson Education, Inc.	5%
2	Understand the BUS system on a computer	1.Understand the BUS system on a computer 2.Understand the form and function of the address bus on a computer 3.Understand the form and function of the data bus on a computer 4.Understand the form and function of the control bus on a computer	Criteria: Evaluation Rubric	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Material: Meeting material 2 Reader: William Stallings. 2010. Computer Organization and Architecture. 8th Edition. New Jersey: Pearson Education, Inc.	5%
3	Understand the BUS system on a computer	1.Understand the BUS system on a computer 2.Understand the form and function of the address bus on a computer 3.Understand the form and function of the data bus on a computer 4.Understand the form and function of the control bus on a computer	Criteria: Evaluation Rubric Form of Assessment: Participatory Activities	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Material: Meeting material 3 Reader: William Stallings. 2010. Computer Organization and Architecture. 8th Edition. New Jersey: Pearson Education, Inc.	0%
4	Mastering the ALU concept	1. Understanding RISC and CISC 2.Understand the instruction set in the ALU	Criteria: Evaluation Rubric	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Material: Meeting material 4 Reader: William Stallings. 2010. Computer Organization and Architecture. 8th Edition. New Jersey: Pearson Education, Inc.	5%

5	Mastering the ALU concept	1. Understanding RISC and CISC 2.Understand the instruction set in the ALU	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Me ma Re Wii Sta 200 Co Organia Arc 8th Ne Pe.	emputer ganization d chitecture. n Edition. ew Jersey: arson lucation,	5%
6	Mastering the ALU concept	1. Understanding RISC and CISC 2.Understand the instruction set in the ALU	Criteria: Evaluation Rubric Form of Assessment: Participatory Activities	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Me ma Re Wii Sta 200 Co Organia Arc 8th Ne Pe.	mputer ganization d chitecture. a Edition. w Jersey: arson lucation,	5%
7	Mastering the ALU concept	1. Understanding RISC and CISC 2.Understand the instruction set in the ALU	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Me ma Re Wii Sta 200 Co Organia Arc 8th Ne Pe.	mputer ganization d chitecture. n Edition. w Jersey: arson lucation,	5%
8	can complete UTS	Evaluation Rubric	Criteria: Evaluation Rubric	Written Test 2 X 50	Me ma Re Wii Sta 200 Co Organia Arc 8th Ne Pe.	mputer ganization d chitecture. n Edition. w Jersey: arson lucation,	10%
9	Mastering the ALU concept	1. Understanding RISC and CISC 2.Understand the instruction set in the ALU	Criteria: Evaluation Rubric Form of Assessment: Participatory Activities	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Me ma Re Wii Sta 200 Co Organia Arc 8th Ne Pe.	mputer ganization d chitecture. a Edition. w Jersey: arson lucation,	5%

10	Mastering the ALU concept	1. Understanding RISC and CISC 2.Understand the instruction set in the ALU	Criteria: Evaluation Rubric Form of Assessment: Participatory Activities	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Material: Meeting material 5 Reader: William Stallings. 2010. Computer Organization and Architecture. 8th Edition. New Jersey: Pearson Education, Inc.	5%
11	Mastering the ALU concept	1. Understanding RISC and CISC 2.Understand the instruction set in the ALU	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Material: Meeting material 5 Reader: William Stallings. 2010. Computer Organization and Architecture. 8th Edition. New Jersey: Pearson Education, Inc.	5%
12	Mastering the ALU concept	1. Understanding RISC and CISC 2.Understand the instruction set in the ALU	Criteria: Evaluation Rubric Form of Assessment: Participatory Activities	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Material: Meeting material 5 Reader: William Stallings. 2010. Computer Organization and Architecture. 8th Edition. New Jersey: Pearson Education, Inc.	5%
13	Mastering the ALU concept	1. Understanding RISC and CISC 2.Understand the instruction set in the ALU	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Material: Meeting material 5 Reader: William Stallings. 2010. Computer Organization and Architecture. 8th Edition. New Jersey: Pearson Education, Inc.	5%
14	Mastering the ALU concept	1. Understanding RISC and CISC 2.Understand the instruction set in the ALU	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Material: Meeting material 5 Reader: William Stallings. 2010. Computer Organization and Architecture. 8th Edition. New Jersey: Pearson Education, Inc.	5%

15	Mastering the ALU concept	1. Understanding RISC and CISC 2.Understand the instruction set in the ALU	Criteria: Evaluation Rubric Form of Assessment: Participatory Activities	Model: Discovery Learning Method: Discussion Approach: Scientific 2 X 50	Material: Meeting material 5 Reader: William Stallings. 2010. Computer Organization and Architecture. 8th Edition. New Jersey: Pearson Education, Inc.	5%
16	Solving UAS questions	Evaluation Rubric	Criteria: Evaluation Rubric Form of Assessment: Participatory Activities	Written Test 2 X 50	Material: Meeting material 5 Reader: William Stallings. 2010. Computer Organization and Architecture. 8th Edition. New Jersey: Pearson Education, Inc.	10%

Evaluation Percentage Recap: Case Study

⊏va	Evaluation Fercentage Recap. Case 3								
No	Evaluation	Percentage							
1.	Participatory Activities	65%							
		65%							

Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program)
 which are used for the formation/development of a course consisting of aspects of attitude, general skills, special
 skills and knowledge.
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- Subject Sub-PO (Sub-PO) is a capability that is specifically described from the PO that can be measured or
 observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the
 course.
- Indicators for assessing ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- 6. **Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- 7. Forms of assessment: test and non-test.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and sub-tonics.
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.