

Universitas Negeri Surabaya Faculty of Mathematics and Natural Sciences Data Science Undergraduate Study Program

Document Code

SEMESTER LEARNING PLAN

Courses			co	CODE Cours Family			Credit Weight				SEMESTER			Compilation Date						
Parallel Computing			492	4920203053				T=3		P=0	ECTS=4.77		6		J	July 18, 2024		2024		
AUTHORIZATION			SP	SP Developer					Course Cluster Coordinator					Study Program Coordinator						
															Yuli	ani Pı	ıji A: M.S		i, S.S	Si.,
Learning model	I P	Project Based Learning																		
Program		LO stud	ly prog	ram	that is	charg	ed to	o th	e co	ourse	•									
Learning Outcom		Program Objectives (PO)																		
(PLO)		PLO-PO Matrix																		
		P.0																		
PO Matrix at the end of each learning stage (Sub-PO)																				
				P.0						Week										
				1	2 3	4	5	6	7	8	9	10	11	12	2 13	14	1	5	16	1
			L																	-
Short Course Description This course reviews general concepts in parallel computing such as division of The main domain of this course is the use of basic parallel techniques for compu- intelligence, and ML model prototyping								n of la omputi	bor ar ng rel	nd ir evai	ifras nt to	struc arti	ture. ficial							
Referen	ces N	Main :																		
		1. Kshemkalyani, Ajay D., & Singhal Mukesh. 2011. Distributed Computing: Principles, Algorithm										ıms,								
		and Systems. United Kingdom: Cambridge University Press. 2. Varela, Carlos A., & Agha, Gul. 2013. Programming Distributed Computing Systems: A																		
		Foundational Approach. United States: The MIT Press.																		
		3. Pacheco, Peter. 2011. An Introduction to Parallel Programming. United States: Morgan Kaufmann																		
	s	upporte	rs:																	
Supporting lecturer																				
Week-	Final abilities of each			Evaluation					Help Learning, Learning methods, Student Assignments, [Estimated time]				Learning materials			Assessment				
	learni stage (Sub-	Ŭ	Indicat	tor	Criteria	& For		Offlin (offlir)		O	nline	(onl	ine)		Refe	ence:]	s Weight ((%)	
(1)	(1) (2)		(3)		(4)		(5)			((6)			(7)			(8)	
1			_		_			_							_				0%	

2				0%
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Evaluation Percentage Recap: Project Based Learning
No Evaluation Percentage
0%

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.
- 2. 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.
- 4. **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.
- 5. **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.
- 9. 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-topics.
- 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.