

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

Document Code

UNES	A											
			SEMI	ESTER	LEA	RN	ING P	LAN				
Courses		CODE	CODE Course Family		Credit Weight		SEMESTER	Compilation Date				
Discrete Event Systems			20201	02186			T=2 P=0	ECTS=3.18	6	July 18, 2024		
AUTHORIZATION		SP De	SP Developer		Course Cluster Coordinator		Study Program Coordinator					
								Dr. Lusia Rakhmawati, S.T., M.T.				
Learning model	, (	Case Studies	<b>'</b>									
Program		PLO study program that is charged to the course										
Learning		Program Objectives (PO)										
(PLO)		PLO-PO Matrix										
		P.O										
		PO Matrix at th	e end of e	ach learning	stage (S	Sub-l	PO)					
		P.O	P.O Week									
				1 2 3 4	4 5 6	6 7	8 9	10 11 1	2 13 14	15 16		
Short Course Description  This course explains the concept of discrete event systems, models of discrete event systems, analyst discrete event systems, supervisory arrangements for discrete event systems						ns, analysis of						
References		Main :										
		1. C. G. Cassandras and S. Lafortune, "Introduction to Discrete Event Systems", 2nd Edition, Springer, 2008 Kumar Ratnesh, Vijay K. Garg: "Modelling and Control of Logical Discrete Event Systems", Kluwer Academic Publishers,1995.										
		Supporters:										
Support lecturer		Endryansyah, S.T Rifqi Firmansyah										
Week-Week-Stage (Sub-PO)		E	Evaluation  dicator Criteria & Fo		Le Stu	Help Learn earning met dent Assign Estimated Online	thods, nments,	Learning materials [ References	Assessment Weight (%)			
(1)		(2)	(3)	(4)	(	5)		(6)	(7)	(8)		

1	students understand event- driven, time-driven systems and their characteristics.		2 X 50		0%
2	students are able to represent discrete event systems in Model Language and Automata		2 X 50		0%
3	students are able to represent discrete event systems in the Petri Net Model		2 X 50		0%
4	Able to represent discrete event systems in Algebraic and Logic Dioid Models		2 X 50		0%
5	Able to analyze stability, reachability, and deadlocks of discrete event systems		2 X 50		0%
6	Able to model and analyze Timed Automata		2 X 50		0%
7	Able to model and analyze Timed Petri Net		2 X 50		0%
8	UTS		2 X 50		0%
9					0%
10					0%
11					0%
12					0%
13					0%
14					0%
15					0%
16					0%
L			l		

Evaluation Percentage Recap: Case Study

Evaluation Percentage Recap: Cas						
	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.
- 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.