

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

Document Code

SEMESTER LEARNING PLAN

Courses				Cours Famil			Credit Weight			:	SEMES	STER	Cor Dat	npilat e	tion				
Intelligent Control System*		2020102348					Г=0	P=0	ECTS	=0	5		July	17, 2	2024				
AUTHORIZATION		SP Developer					Course Cluster Coordinator				Study Program Coordinator								
														Dr. L	usia F. S.T.	Rakhr , M.T		ti,	
Learning model		Case Studies																	
Program	ı	PLO study	orog	ram whic	h is char	rged to	o the	cou	irse										
Learning		Program Ob	oject	ives (PO)															
(PLO)	PLO-PO Matrix																		
				P.O															
PO Matrix at the end of each learning stage (Sub-PO)																			
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			Г	P.0						10/	eek								
				1	2 3	4 5	6	7	8	9	10	11	12	13	14	15	10	-	
					2 3	4 5	0	1	0	9	10	11	12	13	14	15	16	1	
Short Introduction to Intelligent Contr Course Fuzzy Systems, Artificial Neura Description													, Fu	zzy cor	ntrollei	rs, Rı	ile Ba	ised	
-																			
Referen	ces	Main :																	
References		1. Jang	, Mizı	utani, Sun.	1997. Ne	uro Fu	zzy a	nd So	oft C	Comp	uting.	Prentic	e H	all.					
		Supporters:																	
Support lecturer		Endryansyah Dr. Puput Wa Muhamad Sy	narti	Rusimamto															
Week of		nal abilities each		Evaluation				Help Learning, Learning methods, Student Assignments, [Estimated time]					Learning materials		Assessment				
WEEK-	leaı (Su	learning stage (Sub-PO)		ndicator	Criteria	Criteria & Form		Offline (<i>offline</i>)						References]		Weight (%)			
(1)		(2)		(3) (4)		4)		(5)	5) (6)			(7))		(8)				
1	ab an co wit	udents are le to design d simulate ntrol systems th Fuzzy gorithms,	are cre se se me	udents e able to eate Crisp its, Fuzzy its and embership nctions			3	8 X 50	C								0%		

2	Students are able to design and simulate control systems with Fuzzy algorithms	Students are able to determine Fuzzy Membership Functions	3 X 50		0%
3	Students are able to design and simulate control systems with Fuzzy algorithms	Students are able to determine Fuzzy Membership Functions	3 X 50		0%
4	Students are able to design and simulate control systems with Fuzzy algorithms	Students are able to design Fuzzy controllers.	3 X 50		0%
5	Students are able to design and simulate control systems with Fuzzy algorithms	Students are able to design Fuzzy controllers.	3 X 50		0%
6	Students are able to design and simulate control systems with Fuzzy algorithms	Students are able to design Fuzzy controllers	3 X 50		0%
7	Students are able to design and simulate control systems with Fuzzy algorithms	Students are able to design Fuzzy controllers.	3 X 50		0%
8			3 X 50		0%
9					0%
10					0%
11					0%
12					0%
13					0%
14					0%
15					0%
16					0%

 Evaluation Percentage Recap: Case Study

 No
 Evaluation

 Percentage

Notes

- 1. 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 abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities 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.