

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

Document Code

SEMESTER LEARNING PLAN

Courses				CODE			Col	urse Fa	milv	,	Cred	lit We	iaht	SE	MEST	FR	Com	nilation
Courses				CODE			001		iiiiy		oree	1	igin .	02				
Pneumatic and Hydraulic Control Systems AUTHORIZATION		2020102362			Compulsory Study Program Subjects			T=0	P=0	ECTS=0		5						
AUTHOR	IZAT	ION		SP Develope	r		,			Course Cluster Coordinator			Stu Co	Study Program Coordinator				
				Endryansyah,	S.T., N	И.Т				rof. [., M.		Gusti F	Putu Asto	Dr.	Lusia			vati, S.T.,
Learning model		Case Stud	dies	1					-					1				
		PLO stuc	ly p	rogram that is	s char	ge	d to	o the co	ours	e								
Control Syst AUTHORIZA		Program	Obj	jectives (PO)														
(PLO)		PO - 1		e to apply know gineering to gair											echno	ology,	April 10, 2023	electrical
		PLO-PO	Mat	rix														
				P.O PO-1														
		PO Matri	x at	the end of each learning stage (Sub-PO)														
			_															
				P.0					1	Week								
					1 2		3	4 5	6	7	8	9	10 11	12	13	14	15	16
				PO-1														
Course	ion	function o	f va	provides an und prious types of hydraulic syste	pneum	nati	ic a	ind hyd	rauli	csy	stem	com	onents, t	the d	lesign	aulic and	syste simu	ems, the Ilation of
Reference	ces	Main :																
		 Parr, A. 2003. Hidrolika dan Pneumatik. Jakarta: Erlangga. Tanpa Penulis. 2000. Buku Petunjuk Teknik Tenaga Fluida Pneumatik. The Hydro-Pneumatic Technical Centre. 																
		Supporte	rs:															
1. Tanpa Penulis. 2000. Buku Petunjuk Teknik Tenaga Fluida Hidrolik Minyak. The Hydr Technical Centre.							lro-Pn	neumatic										
	ing	Endryansy	/ah,	S.T., M.T.														
Week-	eac	ities of		Evaluation					Help Learning, Learning methods, Student Assignments, [Estimated time]					earnii nateria [
	iedi	ning															we	gin (70)

	stage (Sub-PO)	Indicator	Criteria & Form	Offline(offline)	Online (<i>online</i>)	References]	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1		Evaluation Rubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	contextual instruction 2 x 50		Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%
2		Evaluation Rubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	contextual instruction 2 x 50		Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%
3		Evaluation Rubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	contextual instruction 2 x 50		Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%
4		Evaluation Rubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	contextual instruction 2 x 50		Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%
5		Evaluation Rubric	Criteria: Evaluation Rubric	contextual instruction 2 x 50		Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	10%
6		Evaluation Rubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	contextual instruction 2 x 50		Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%

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7	Evaluation Rubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	contextual instruction 2 x 50	Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%
8	Evaluation Rubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities, Tests	contextual instruction 2 x 50	Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%
9	Evaluation Rubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	contextual instruction 2 x 50	Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%
10	Evaluation Rubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	contextual instruction 2 x 50	Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%
11	Evaluation Rubric	Criteria: Evaluation Rubric	contextual instruction 2 x 50	Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	10%
12	Evaluation Rubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	contextual instruction 2 x 50	Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%
13	Evaluation Rubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	contextual instruction 2 x 50	Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%

14	valuation ubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	contextual instruction 2 x 50	Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%
15	valuation ubric	Criteria: Evaluation Rubric Form of Assessment : Participatory Activities	contextual instruction 2 x 50	Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	5%
16	valuation ubric	Criteria: Evaluation Rubric	contextual instruction 2 x 50	Material: Meeting material 1 References: Parr, A. 2003. Hydraulics and Pneumatics. Jakarta: Erlangga.	10%

Evaluation Percentage Recap: Case Study

	No	Evaluation	Percentage	
Γ	1.	Participatory Activities	62.5%	
	2.	Test	2.5%	
Γ			65%	

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.
- 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.