

## Universitas Negeri Surabaya Faculty of Engineering, Mechanical Engineering Education Undergraduate Study Program

Document Code

## SEMESTER LEARNING PLAN

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Courses		CODE			C	Course Family			Credit Weight			S	SEME	STER	Con Date	npilat Ə	ion			
Thesis			8320304264			C	Comp	ulsor	y Stu	idy	T=0	) P=	4 EC	:TS=6.	36	8		July	17, 2	024
AUTHORIZATION			Program Súbj SP Developer					Course Cluster Coordinator					Study Coord	Progr inator	ram					
			Wahyu Dwi I	Kurnia	awar	ו, S.F	Pd., N	1.Pd.		Vahy 1.Pd.		i Kurr	niawai	n, S.Pc	ł.,	lr. Wa		0wi Ku ., M.P		an,
Learning model	Project Based Learning																			
Program	PLO study program that is charged to the course																			
Learning Outcomes	PLO-5	Hav	e social comp	etenc	e an	id pe	rsona	ality c	omp	etenc	e in i	mech	anical	engin	eering	g eduo	ation			
(PLO)	PLO-6		e to apply and ughout life	analy	/ze p	edag	jogica	al coi	mpet	encie	s in r	necha	anical	engine	eerinę	g educ	ation	contin	uously	ļ
	PLO-9 Able to carry out research in the field of mechanical engineering																			
	Program Objectives (PO)																			
	PO - 1 Students have good morals, ethics and personality when writing their thesis																			
	PO - 2	Students are able to compose a thesis according to the rules of writing scientific papers																		
	PO - 3	PO - 3 Students are able to search for scientific work references that are relevant to the thesis topic																		
	PLO-PO Mat	rix																		
															_					
			P.O	P.O PLO-5			5		PL	PLO-6 PLO-9										
			PO-1																	
			PO-2																	
			PO-3																	
	PO Matrix at	the e	end of each l	earn	ing	stag	e (S	ub-P	0)											
			P.O									Wee	k							
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
		F	PO-1																	
		F	PO-2																	
		F	PO-3																	
												II								1
Short Course Description	Students can school curricul form of scientif	um, r	nedia develor	men	t, de	velop	omen	t of t	each	netho iing r	ds, le nater	earnir ials, a	ig stra applic	ategies ation c	s, lear of lea	rning e rning i	evalua model	ttion, v s writt	vocatio ten in	onal the
References	Main :																			
	1. Tim. 2023. Pedoman Penulisan Skripsi. Surabaya: Unipress																			

	Supporters:						
Support		Kurniawan, S.Pd	., M.Pd.				
Week-	Final abilities of each learning stage	Ev	aluation	Lea Stude	elp Learning, rning methods, ent Assignments, stimated time]	Learning materials	Assessment Weight (%)
	(Sub-PO)	Indicator	Criteria & Form	Offline( offline)	Online ( <i>online</i> )	References	trongin (70)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Students are able to prepare research instruments	Accuracy in preparing research instruments	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Research instruments Library: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%
2	Students are able to prepare research instruments	Accuracy in preparing research instruments	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Research instruments Library: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%
3	Students validate research instruments	The research instrument was declared valid by the validator	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Validation of research instruments References: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%
4	Students are able to compile research tools	Accuracy in compiling research tools	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Research tools Library: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%
5	Students are able to compile research tools	Accuracy in compiling research tools	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Research tools Library: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%
6	Students are able to compile research tools	Accuracy in compiling research tools	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Research tools Library: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%

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7	Students are able to compile research tools	Accuracy in compiling research tools	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Research tools Library: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%
8	Students validate research tools	The research tool was declared valid by the validator	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Validation of research tools References: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%
9	Students validate research tools	The research tool was declared valid by the validator	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Validation of research tools References: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%
10	Students are able to collect research data	Research data has been collected	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Research data collection Library: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%
11	Students are able to collect research data	Research data has been collected	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Research data collection Library: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%
12	Students are able to analyze research data	Accuracy in analyzing research data	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Data Analysis Techniques Library: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%
13	Students are able to compose Chapter IV. Results and Discussion and Chapter V. Conclusions and Suggestions	Accuracy in compiling Chapter IV and Chapter V.	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Discussion and consultation with Supervisor * 4x50	* Discussion and consultation with Supervisor * 4x50	Material: Results, Discussion, Conclusions, Suggestions Literature: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%

14	Students take a thesis exam	1.Mastery of research results 2.The thesis report is received by the examining lecturer	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Thesis Exam * 4x50	* Thesis Exam * 4x50	Material: Results, Discussion, Conclusions, Suggestions Literature: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress Material: Thesis Examination Procedure Reader: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	30%
15	Students revise their thesis based on input from the examining lecturer	The thesis has been revised and approved by the examining lecturer	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Thesis Exam * 4x50	* Thesis Exam * 4x50	Material: Thesis Examination Procedure Reader: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%
16	Students revise their thesis based on input from the examining lecturer	The thesis has been revised and approved by the examining lecturer	Criteria: Assessment rubric Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	* Thesis Exam * 4x50	* Thesis Exam * 4x50	Material: Thesis Examination Procedure Reader: Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress	5%

## Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Project Results Assessment / Product Assessment	52.5%
2.	Portfolio Assessment	52.5%
		100%

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.