



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

Document  
Code

**SEMESTER LEARNING PLAN**

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Thesis proposal	8320302263	Compulsory Study Program Subjects	T=0	P=2	ECTS=3.18	7	July 17, 2024
AUTHORIZATION	SP Developer		Course Cluster Coordinator			Study Program Coordinator	
	Wahyu Dwi Kurniawan, S.Pd., M.Pd.		Wahyu Dwi Kurniawan, S.Pd., M.Pd.			Ir. Wahyu Dwi Kurniawan, S.Pd., M.Pd.	

**Learning model**      **Project Based Learning**

**Program Learning Outcomes (PLO)**      **PLO study program which is charged to the course**

**PLO-5**      Have social competence and personality competence in mechanical engineering education

**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 preparing a thesis proposal

**PO - 2**      Students are able to prepare a thesis proposal according to the rules of writing scientific papers

**PO - 3**      Students are able to search for scientific work references that are relevant to the thesis proposal topic

**PLO-PO Matrix**

P.O	PLO-5	PLO-9
PO-1		
PO-2		
PO-3		

**PO Matrix at the end of each learning stage (Sub-PO)**

P.O	Week															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PO-1																
PO-2																
PO-3																

**Short Course Description**      Students can compose scientific papers related to research methods, learning strategies, learning evaluation, vocational school curriculum, media development, development of teaching materials, application of learning models written in the form of scientific work proposals (thesis proposals)

<b>References</b>	<b>Main :</b>	
		1. Tim. 2023. Pedoman Penulisan Skripsi. Surabaya: Unipress
	<b>Supporters:</b>	

Supporting lecturer		Ir. Wahyu Dwi Kurniawan, S.Pd., M.Pd.					
Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [ Estimated time]		Learning materials [ References ]	Assessment Weight (%)
		Indicator	Criteria & Form	Offline ( offline )	Online ( online )		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Students understand the problems that will be proposed as proposals in their thesis	Accuracy in briefly explaining the topic written in the proposal	<b>Criteria:</b> Understanding of the topic to be researched  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Research Background <b>Literature:</b> <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%
2	Students understand the rules for writing scientific papers	Accuracy in explaining the rules for writing scientific papers	<b>Criteria:</b> Understanding the rules of writing scientific papers  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Rules for writing scientific papers <b>Reader:</b> <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%
3	Students understand the rules for citing references	Accuracy in explaining the rules for citing references	<b>Criteria:</b> Understanding of the rules for citing references  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Rules for citing references <b>References:</b> <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%
4	Students are able to compose Chapter I. Introduction	The substance of Chapter I. Introduction is in accordance with the guidelines for writing scientific papers	<b>Criteria:</b> Conformity with thesis writing guidelines  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Chapter I. Introduction <b>Bibliography:</b> <i>Tim. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%
5	Students are able to compose Chapter I. Introduction	The substance of Chapter I. Introduction is in accordance with the guidelines for writing scientific papers	<b>Criteria:</b> Conformity with thesis writing guidelines  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Chapter I. Introduction <b>Bibliography:</b> <i>Tim. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%
6	Students are able to compose Chapter I. Introduction	The substance of Chapter I. Introduction is in accordance with the guidelines for writing scientific papers	<b>Criteria:</b> Conformity with thesis writing guidelines  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Chapter I. Introduction <b>Bibliography:</b> <i>Tim. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%
7	Students are able to compose Chapter II. Literature review	Substance of Chapter II. The literature review is in accordance with the guidelines for writing scientific papers	<b>Criteria:</b> Conformity with thesis writing guidelines  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Chapter II. Literature Review <b>Review :</b> <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%

8	Students are able to compose Chapter II. Literature review	Substance of Chapter II. The literature review is in accordance with the guidelines for writing scientific papers	<b>Criteria:</b> Conformity with thesis writing guidelines  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Chapter II. Literature Review : <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%
9	Students are able to compose Chapter II. Literature review	Substance of Chapter II. The literature review is in accordance with the guidelines for writing scientific papers	<b>Criteria:</b> Conformity with thesis writing guidelines  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Chapter II. Literature Review : <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%
10	Students are able to compose Chapter III. Research methods	Substance of Chapter III. The research method is in accordance with the guidelines for writing scientific papers	<b>Criteria:</b> Conformity with thesis writing guidelines  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Chapter III. <b>Library</b> Research Methods : <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%
11	Students are able to compose Chapter III. Research methods	Substance of Chapter III. The research method is in accordance with the guidelines for writing scientific papers	<b>Criteria:</b> Conformity with thesis writing guidelines  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Chapter III. <b>Library</b> Research Methods : <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%
12	Students are able to compose Chapter III. Research methods	Substance of Chapter III. The research method is in accordance with the guidelines for writing scientific papers	<b>Criteria:</b> Conformity with thesis writing guidelines  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Chapter III. <b>Library</b> Research Methods : <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%
13	Students are able to compile a bibliography according to the rules of writing scientific papers	Accuracy in compiling a bibliography according to the rules of writing scientific papers	<b>Criteria:</b> Conformity with thesis writing guidelines  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Rules for writing bibliography References : <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	5%
14	Students carry out a thesis proposal seminar	The proposal is accepted by the examining lecturer	<b>Criteria:</b> Students master the research topic to be researched  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Proposal seminar procedures <b>References:</b> <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	30%
15	Students revise their thesis proposals based on the examining lecturer's input	The thesis proposal has been approved by the examining lecturer	<b>Criteria:</b> Students master the research topic to be researched  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Proposal seminar procedures <b>References:</b> <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	30%

16	Students revise their thesis proposals based on the examining lecturer's input	The thesis proposal has been approved by the examining lecturer	<b>Criteria:</b> Students master the research topic to be researched  <b>Form of Assessment :</b> Portfolio Assessment	* Discussion and consultation with Supervisor * 2x50	* Discussion and consultation with Supervisor * 2x50	<b>Material:</b> Proposal seminar procedures <b>References:</b> <i>Team. 2023. Thesis Writing Guidelines. Surabaya: Unipress</i>	30%
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#### Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Portfolio Assessment	155%
		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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Forms of assessment:** test and non-test.
- 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.
- Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 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%.
- TM=Face to face, PT=Structured assignments, BM=Independent study.