



**Universitas Negeri Surabaya  
Vocational Faculty,  
D4 Electrical Engineering Study Program**

Document Code

**SEMESTER LEARNING PLAN**

<b>Courses</b>	<b>CODE</b>	<b>Course Family</b>	<b>Credit Weight</b>	<b>SEMESTER</b>	<b>Compilation Date</b>																																											
Occupational Health and Safety	2030502049	Compulsory Study Program Subjects	T=2 P=0 ECTS=3.18	1	August 28, 2023																																											
<b>AUTHORIZATION</b>	<b>SP Developer</b>		<b>Course Cluster Coordinator</b>	<b>Study Program Coordinator</b>																																												
	.....		.....	Mahendra Widyartono, S.T., M.T.																																												
<b>Learning model</b>	Case Studies																																															
<b>Program Learning Outcomes (PLO)</b>	PLO study program that is charged to the course																																															
	Program Objectives (PO)																																															
	PLO-PO Matrix																																															
		P.O																																														
	PO Matrix at the end of each learning stage (Sub-PO)																																															
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width: 5%;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td style="width: 3%;">1</td> <td style="width: 3%;">2</td> <td style="width: 3%;">3</td> <td style="width: 3%;">4</td> <td style="width: 3%;">5</td> <td style="width: 3%;">6</td> <td style="width: 3%;">7</td> <td style="width: 3%;">8</td> <td style="width: 3%;">9</td> <td style="width: 3%;">10</td> <td style="width: 3%;">11</td> <td style="width: 3%;">12</td> <td style="width: 3%;">13</td> <td style="width: 3%;">14</td> <td style="width: 3%;">15</td> <td style="width: 3%;">16</td> </tr> </table>															P.O	Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
P.O	Week																																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																																
<b>Short Course Description</b>	This course contains a study of the scope and regulations of K3, principles of accident prevention. Measuring threshold values for human physical factors and calculating losses due to work accidents. Able to carry out work accident handling and relief measures, using PPE. Designing anthropometry in work ergonomics and analyzing the application of SMK3 in industry																																															
<b>References</b>	<b>Main :</b>																																															
	<ol style="list-style-type: none"> <li>1. PP No.13 Tahun 2003 dan Undang-undang K-3</li> <li>2. Suma 19mur. 1995. Keselamatan Kerja dan Pencegahan Kecelakaan</li> <li>3. Anizar. 2009. Teknik Keselamatan dan Kesehatan Kerja di Industri</li> <li>4. Banet Silalahi. 1995. Manajemen K-3.</li> </ol>																																															
	<b>Supporters:</b>																																															
<b>Supporting lecturer</b>	Aditya Chandra Hermawan, S.ST., M.T. Ayusta Lukita Wardani, S.ST., M.T.																																															
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	Able to understand the Basic Laws of K-3 and the History of its Development	Can explain Law No. 13 concerning Work Accidents Can explain the history of the development of K3 in Indonesia		Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		0%																																									

2	Able to understand K-3 as a Multi-Discipline	Can explain K-3 as Multi-Disciplinary	<b>Criteria:</b> 1.Accuracy of answers to questions asked 2.Communication skills in asking questions or answering	Lectures, discussions, questions and answers 2 X 50	Lectures, discussions, questions and answers 2 X 50	<b>Material:</b> Basic principles of occupational safety and health in industry and companies <b>Reference:</b> <i>PP No.13 of 2003 and Law K-3</i>	0%
3	Students are able to understand the causes of work accidents and their prevention	Can explain the influence of human, equipment and environmental factors in implementing K3	<b>Criteria:</b> Accuracy of answers to questions asked	Lectures, discussions, questions and answers 2 X 50	Lectures, discussions, questions and answers 2 X 50	<b>Material:</b> causes of work accidents, both from external and internal factors. <b>Reference:</b> <i>Suma 19mur. 1995. Work Safety and Accident Prevention</i>	0%
4	Able to understand about Environmental Pollution	- Students understand the concept of causes of work accidents and know the investigation processes in work accidents	<b>Criteria:</b> e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	Lectures, discussions, questions and answers, assignments 2 X 50	Lectures, discussions, questions and answers, assignments 2 X 50		0%
5	Able to understand Environmental Pollution (Advanced 1)	Can explain about Water Pollution	<b>Criteria:</b> 1.a. Compliance with reporting format 2.b. Results of analysis of the articles read 3.c. Conclusions and suggestions are prepared 4.d. Compliance with Answer Key 5.e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	Lectures, discussions, questions and answers, exercises and assignments 2 X 50			0%
6	Able to understand Environmental Pollution (Advanced 2)	Can explain about Soil Pollution	<b>Criteria:</b> 1.a. Compliance with reporting format 2.b. Results of analysis of the articles read 3.c. Conclusions and suggestions are prepared 4.d. Compliance with Answer Key 5.e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	Lectures, discussions, questions and answers, exercises and assignments 2 X 50			0%

7	Able to understand the causes of work accidents	Can explain the causes of work accidents	<b>Criteria:</b> 1.a. Compliance with reporting format 2.b. Results of analysis of the articles read 3.c. Conclusions and suggestions are prepared 4.d. Compliance with Answer Key 5.e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	Lectures, discussions, questions and answers, exercises and assignments 2 X 50			0%
8	SUB SUMATIVE EXAMINATION / MIDDLE SEMESTER EXAMINATION (UTS)	SUB SUMATIVE EXAMINATION / MIDDLE SEMESTER EXAMINATION (UTS)	<b>Criteria:</b> 1.a. Compliance with reporting format 2.b. Results of analysis of the articles read 3.c. Conclusions and suggestions are prepared 4.d. Compliance with Answer Key 5.e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	SUB SUMATIVE EXAMINATION / MIDDLE SEMESTER EXAMINATION (UTS) 2 X 50			0%
9	Able to understand Accident Root Management and Comparison of 5 Leading Management Theories	Can explain Management Policies, actions that cause accidents and management theory	<b>Criteria:</b> 1.a. Compliance with reporting format 2.b. Results of analysis of the articles read 3.c. Conclusions and suggestions are prepared 4.d. Compliance with Answer Key 5.e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	Lectures, discussions, questions and answers, exercises and assignments 2 X 50			0%

10	Able to understand K-3 Management Principles	Can explain management and operational policies, work performance and explain unsafe actions and conditions.	<b>Criteria:</b> 1.a. Compliance with reporting format 2.b. Results of analysis of the articles read 3.c. Conclusions and suggestions are prepared 4.d. Compliance with Answer Key 5.e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	Lectures, discussions, questions and answers, exercises and assignments 2 X 50			0%
11	Able to understand work accident prevention techniques	Can explain hardware aspects in accident prevention	<b>Criteria:</b> 1.a. Compliance with reporting format 2.b. Results of analysis of the articles read 3.c. Conclusions and suggestions are prepared 4.d. Compliance with Answer Key 5.e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	Lectures, discussions, questions and answers, exercises and assignments 2 X 50			0%
12	Able to Understand Work Accident Prevention Techniques (Continued)	Can explain hardware aspects in accident prevention	<b>Criteria:</b> 1.a. Compliance with reporting format 2.b. Results of analysis of the articles read 3.c. Conclusions and suggestions are prepared 4.d. Compliance with Answer Key 5.e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	Lectures, discussions, questions and answers, exercises and assignments 2 X 50			0%

13	Able to understand the basics of increasing K-3 awareness among employees	Can explain the main points of efforts to increase K-3 Awareness in the Employee Environment	<b>Criteria:</b> 1.a. Compliance with reporting format 2.b. Results of analysis of the articles read 3.c. Conclusions and suggestions are prepared 4.d. Compliance with Answer Key 5.e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	Lectures, discussions, questions and answers, exercises and assignments 2 X 50			0%
14	Able to understand the Fire Hazard Prevention System	Can explain about Fire Danger Signals and Fire Fighting Systems	<b>Criteria:</b> 1.a. Compliance with reporting format 2.b. Results of analysis of the articles read 3.c. Conclusions and suggestions are prepared 4.d. Compliance with Answer Key 5.e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	Lectures, discussions, questions and answers, exercises and assignments 2 X 50			0%
15	Able to understand work accident analysis	Can explain losses that occur in work accidents and can explain statistics on work accidents and occupational diseases	<b>Criteria:</b> 1.a. Compliance with reporting format 2.b. Results of analysis of the articles read 3.c. Conclusions and suggestions are prepared 4.d. Compliance with Answer Key 5.e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	Lectures, discussions, questions and answers, exercises and assignments 2 X 50			0%

16	FINAL SEMESTER EXAMINATION (UAS)	FINAL SEMESTER EXAMINATION (UAS)	<b>Criteria:</b> 1.a. Compliance with reporting format 2.b. Results of analysis of the articles read 3.c. Conclusions and suggestions are prepared 4.d. Compliance with Answer Key 5.e. 100 points if all answers are correct (100%) 70 points if 30% of the answers are wrong. 50 points if 50% of the answers are wrong. Answer 0 if all are wrong.	FINAL SEMESTER EXAMINATION (UAS) 2 X 50			0%
----	----------------------------------	----------------------------------	--	--	--	--	----

**Evaluation Percentage Recap: Case Study**

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.
- 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.