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

SEMESTER LEARNING PLAN

Courses		CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Occupational Health and Safety (K3)		2120102031		**T=2**	**P=0**	**ECTS=3.18**	8	July 18, 2024

AUTHORIZATION	SP Developer	Course Cluster Coordinator	Study Program Coordinator
	....	....	Ir. Priyo Heru Adiwibowo, S.T., M.T.

Learning model	Case Studies

Program Learning Outcomes (PLO)	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)

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

Short Course Description	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

References	**Main :**
	1. PP No.13 Tahun 2003 dan Undang-undang K-3 2. Suma 19mur. 1995. Keselamatan Kerja dan Pencegahan Kecelakaan 3. Anizar. 2009. Teknik Keselamatan dan Kesehatan Kerja di Industri 4. Banet Silalahi. 1995. Manajemen K-3.
	Supporters:

Supporting lecturer	I MADE MULIATNA Dyah Riandadari, S.T., M.T. Muamar Zainul Arif, 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	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	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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%
2	Able to understand K-3 as a Multi-Discipline	Can explain K-3 as Multi-Disciplinary	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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%
3	Able to understand the influencing factors in K-3	Can explain the influence of human, equipment and environmental factors in implementing K3	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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%

4	Able to understand about Environmental Pollution	Can explain about air pollution.	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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%
5	Able to understand Environmental Pollution (Advanced 1)	Can explain about Water Pollution	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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)	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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.	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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	**Criteria:** 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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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) | **Criteria:**
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 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong. 50 marks 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

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** 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.