



Universitas Negeri Surabaya
Faculty of Engineering,
Building Engineering Education Undergraduate Study Program

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight	SEMESTER	Compilation Date																																																			
Occupational Health and Safety*	8320502292		T=2 P=0 ECTS=3.18	7	July 17, 2024																																																			
AUTHORIZATION	SP Developer		Course Cluster Coordinator		Study Program Coordinator																																																			
		Dr. Gde Agus Yudha Prawira Adistana, S.T., M.T.																																																			
Learning model	Project Based Learning																																																							
Program Learning Outcomes (PLO)	PLO study program that is charged to the course																																																							
	Program Objectives (PO)																																																							
	PO - 1	Can identify the dangers of work accidents and assess the level of risk and can control the risk of work accidents																																																						
	PLO-PO Matrix																																																							
	<table border="1" style="margin: auto;"> <tr><td style="padding: 5px;">P.O</td></tr> <tr><td style="padding: 5px;">PO-1</td></tr> </table>	P.O	PO-1																																																					
P.O																																																								
PO-1																																																								
PO Matrix at the end of each learning stage (Sub-PO)																																																								
<table border="1" style="margin: auto;"> <tr> <td style="padding: 5px;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td></td> <td style="text-align: center;">1</td><td style="text-align: center;">2</td><td style="text-align: center;">3</td><td style="text-align: center;">4</td><td style="text-align: center;">5</td><td style="text-align: center;">6</td><td style="text-align: center;">7</td><td style="text-align: center;">8</td><td style="text-align: center;">9</td><td style="text-align: center;">10</td><td style="text-align: center;">11</td><td style="text-align: center;">12</td><td style="text-align: center;">13</td><td style="text-align: center;">14</td><td style="text-align: center;">15</td><td style="text-align: center;">16</td> </tr> <tr> <td style="padding: 5px;">PO-1</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>	P.O	Week																	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	PO-1																					
P.O	Week																																																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																																								
PO-1																																																								
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. Able to carry out work accident handling and relief measures, using PPE. Analyze the application of SMK3 in industry.																																																							
References	Main :																																																							
	<ol style="list-style-type: none"> 1. UU No.13 Tahun 2003 tentang Ketenagakerjaan 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. 5. undang-undang no 1 tahun 1970 tentang Keselamatan Kerja 6. PP 50 tahun 2013 tentang Pedoman Pelaksanaan SMK3 																																																							
	Supporters:																																																							
	1. PP 50 tahun 2013 tentang Pedoman Pelaksanaan SMK3																																																							
Supporting lecturer	Dr. Ir. H. Soeparno, 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. 1 of 1970 concerning Work Safety. Can explain the history of the development of K3 in Indonesia	<p>Criteria: 100 marks if all answers are correct (100%) 70 marks if there are 30 wrong answers 50 % if there are 50 % wrong answers</p> <p>Forms of Assessment : Participatory Activities, Practice/Performance, Tests</p>	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		20%
2	Able to understand K-3 as a Multi-Discipline	Can explain K-3 as Multi Disciplinary Science in a job	<p>Criteria: 1.100 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong Mark 50 if 50 % of the answers are wrong 2.20 %</p> <p>Forms of Assessment : Participatory Activities, Practice/Performance, Tests</p>	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		20%
3	Able to understand the influencing factors in K-3	1.Can explain the influence of human, equipment and environmental factors in implementing K3 2.20 %	<p>Criteria: 100 marks if all answers are correct (100%) 70 marks if there are 30 wrong answers 50 % if there are 50 % wrong answers</p> <p>Forms of Assessment : Participatory Activities, Practice/Performance, Tests</p>	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		20%
4	Able to understand about Environmental Pollution	Can explain about air pollution.	<p>Criteria: 100 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong Mark 50 if 50 % of the answers are wrong</p> <p>Forms of Assessment : Participatory Activities, Practice/Performance, Tests</p>	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		0%
5	Able to understand about Environmental Pollution	Can explain about air pollution.	<p>Criteria: 100 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong Mark 50 if 50 % of the answers are wrong</p> <p>Forms of Assessment : Participatory Activities, Practice/Performance, Tests</p>	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		20%
6	Able to understand Environmental Pollution (Advanced 2)	Can explain about Soil Pollution and ambient limits	<p>Criteria: 100 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong Mark 50 if 50 % of the answers are wrong</p> <p>Forms of Assessment : Participatory Activities, Practice/Performance, Tests</p>	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 x 50		20%

7	Able to understand the causes of work accidents	Can explain the causes of work accidents	<p>Criteria: 100 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong Mark 50 if 50 % of the answers are wrong</p> <p>Forms of Assessment : Participatory Activities, Practice/Performance, Tests</p>	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments		20%
8	MIDDLE SEMESTER EXAMINATION (UTS)	Able to explain the meaning of Occupational Safety and Health (K3), K3 as a Multi-Discipline, Factors that influence K3, Environmental Pollution, Causes of Work Accidents	<p>Criteria: COMPATIBILITY WITH ANSWER KEY</p>	MIDDLE SEMESTER EXAMINATION (UTS) 2 X 50	MIDDLE SEMESTER EXAMINATION (UTS) 2 x 50		40%
9	Able to understand Accident Root Management and Comparison of 5 Leading Management Theories	<p>1.Can explain Management Policy, actions that cause accidents and management theory 2.20%</p>	<p>Criteria: 100 marks if all answers are correct (100%) 70 marks if there are 30 % wrong answers. 50 marks if there are 50 % wrong answers.</p> <p>Forms of Assessment : Participatory Activities, Practice/Performance, Tests</p>	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 x 50		20%
10	1.Able to understand K-3 Management Principles 2.20 %	Can explain management and operational policies, work performance and explain unsafe actions and conditions.	<p>Criteria: 100 marks if all answers are correct (100%), 70 marks if there are 30% wrong answers, 50 marks if there are 50% wrong answers</p> <p>Forms of Assessment : Participatory Activities, Practice/Performance, Tests</p>	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2x50		20%
11	Able to understand work accident prevention techniques	<p>1.Can explain hardware aspects in accident prevention 2.20%</p>	<p>Criteria: 100 marks if all answers are correct (100%), 70 marks if there are 30% wrong answers, 50 marks if there are 50% wrong answers</p> <p>Form of Assessment : Participatory Activities, Practice/Performance</p>	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 x 50		20%
12	Able to understand work accident prevention techniques	<p>1.Can explain hardware aspects in accident prevention 2.20%</p>	<p>Criteria: 100 marks if all answers are correct (100%), 70 marks if there are 30% wrong answers, 50 marks if there are 50% wrong answers</p> <p>Form of Assessment : Participatory Activities, Practice/Performance</p>	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 x 50		20%
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	<p>Criteria: 1.100 marks if all answers are correct (100%) 70 marks if there are 30 wrong answers 50 % if there are 50 % wrong answers 2.20%</p> <p>Forms of Assessment : Participatory Activities, Practice/Performance, Tests</p>	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		20%

14	Able to understand the Fire Hazard Prevention System	Can explain about Fire Danger Signals and Fire Fighting Systems	Criteria: 100 marks if all answers are correct (100%) 70 marks if there are 30 wrong answers 50 % if there are 50 % wrong answers Form of Assessment : Participatory Activities, Practice/Performance	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 x50		20%
15	Able to understand work accident analysis	1.Can explain losses that occur in work accidents and can explain statistics on work accidents and occupational diseases 2.20%	Criteria: 100 marks if all answers are correct (100%) 70 marks if there are 30 wrong answers 50 % if there are 50 % wrong answers Forms of Assessment : Participatory Activities, Practice/Performance, Tests	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Lectures, discussions, questions and answers, exercises and assignments 2 x 50		20%
16	FINAL SEMESTER EXAMINATION (UAS)	1.FINAL SEMESTER EXAMINATION (UAS) 2.40%	Criteria: ACCORDING TO THE ANSWER KEY IN THE FINAL SEMESTER EXAMINATION (UAS) Form of Assessment : Participatory Activities, Practice/Performance	FINAL SEMESTER EXAMINATION (UAS) 2 X 50	FINAL SEMESTER EXAMINATION (UAS) 2 x 50		40%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	116.7%
2.	Practice / Performance	116.7%
3.	Test	66.7%
		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** 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.
- 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.