

Universitas Negeri Surabaya Vocational Faculty, D4 Mechanical Engineering Study Program

Document Code

SEMESTER LEARNING PLAN

Courses			CODE		Course	Course Family		Credit	t Weight	SEMESTER	Compilation Date	
K3 and Environmental Pollution		n	99992140102022					T=2	P=0 ECTS=3.18	2	July 17, 2024	
AUTHORIZATION			SP Developer		•		Course Cluster Coordinator			Study Program Coordinator		
			Dyah Riandadari					Dyah Riandadari		Arya Mahendra Sakti, S.T., M.T.		
Learning model	Case Studies											
Program	PLO study prog	PLO study program which is charged to the course										
Learning Outcomes (PLO)	PLO-3	Develop logical, critical, systematic and creative thinking in carrying out specific work in their field of expertise and in accordance with work competency standards in the field concerned										
	PLO-4	Deve	elop yourself continuously and collaborate.									
	Program Objec	tives ((PO)									
	PLO-PO Matrix											
								_				
			P.O		PLO-3		PLO-4					
	PO Matrix at th	e end	of each le	arning s	tage (S	ub-PO)						
		P	P.O					We	ek			
			1	2 3	4	5 6	7	8 9	10	11 12	13 14 1	15 16
Short Course Description	This course is for understanding: Occupational Safety and Health (K3), K3 as a Multi-Discipline, Factors that influence K3, Causes Occupational Accidents, Work Accident Prevention Techniques, Principles of Increasing K-3 Awareness among Employees, Fire Haza Prevention System and Analysis of Work Accidents, Occupational Diseases, and Environmental Pollution (Air Pollution, Water Pollutiand Soil Pollution)					s, Fire Hazard						
References	Main :											
	1. PP No.13 Tahun 2003. dan Undang-undang K-3. Suma 19mur. 1995. Keselamatan Kerja dan Pencegahan Kecelakaan. Anizar. 2009. Teknik Keselamatan dan Kesehatan Kerja di Industri. Banet Silalahi. 1995. Manajemen K-3											
	Supporters:											
Supporting lecturer	Dyah Riandadari, Dr. Warju, S.Pd.,											
Wook ea	nal abilities of ch learning		Evaluation					Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References	Assessment Weight (%)	
	uĎ-PO)	In	Indicator Criteria & F		Form		line (Online (online)]			
(1)	(2)		(3)		(4)			(5)		(6)	(7)	(8)

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1	Able to understand the Basic Laws of K-3 and the History of its Development	Can explain Law No. 13 concerning Work Accidents	Criteria: 1.100 marks if all answers are correct (100%) 70 marks if any answers are wrong 2.30%, 50 marks if there is a wrong answer 50% Form of Assessment : Participatory Activities	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		5%
2	Able to understand K-3 as a Multi- Discipline	Can explain K- 3 as Multi- Disciplinary	Criteria: 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 Form of Assessment :	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		5%
3	Able to understand the influencing factors in K-3	Can explain the influence of human, equipment and environmental factors in implementing K3	Participatory Activities Criteria: 1.100 marks if all answers are correct (100%) 70 marks if any answers are wrong 2.30%, 50 marks if there is a wrong answer 50% Form of Assessment: Participatory Activities	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		5%
4	Able to understand the K-3 Management Principles and Systems	Can explain management and operational policies, work performance and explain unsafe (unsafe) actions and conditions	Criteria: 1.100 marks if all answers are correct (100%), 70 marks if any answers are wrong 2.30%, 50 marks if there is a wrong answer 50% Form of Assessment:	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		0%
5	Able to understand the causes of work accidents	Can explain the causes of work accidents	Participatory Activities 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	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		0%
6	Able to understand work accident prevention techniques	Can explain hardware aspects in accident prevention	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	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		0%
7	Able to Understand Work Accident Prevention Techniques (Continued)	Can explain hardware aspects in accident prevention	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	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		5%
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	Criteria: COMPATIBILITY WITH ANSWER KEY Form of Assessment: Test	MIDDLE SEMESTER EXAMINATION (UTS) 2 X 50		20%

Able to understand the basiss of a control of the							
the Fire Hazard Prevention System and propertion of Systems 1.1. I a Able to understand work accident and orderstand because the financial Pollution 2.00%, 50%, 50%, 50%, 50%, 50%, 50%, 50%,	9	the basics of increasing K-3 awareness among	the main points of efforts to increase K-3 Awareness in the Employee	1.100 marks if all answers are correct (100%) 70 marks if any answers are wrong 2.30%, 50 marks if there is a wrong answer 50% Form of Assessment :	discussions, questions and answers, exercises and assignments		5%
work accident analysis losses that coccur in work accidents and statistics on with accidents and statistics on work accidents and coccupational diseases. 12 Able to understand about Environmental Pollution. Able to understand about Environmental Pollution. Able to understand about Environmental Pollution. Able to understand about Environmental Pollution Able to understand about Environmental Pollution. Able to understand about Environmental Pollution Able to understand Environmental Pollution Able Environmental Pollution Able to understand Environmental Pollution Environmental Pollution Able to understand Environmental Pollution Environmental Pollution Able Environmental Pollution Environmental Poll	10	the Fire Hazard	about Fire Danger Signals and Fire Fighting	1.100 marks if all answers are correct (100%) 70 marks if any answers are wrong 2.30 % Score 50 if there is a wrong answer 50 % Form of Assessment :	discussions, questions and answers, exercises and assignments		5%
about Environmental Pollution about air pollution. about air pollution. about air pollution. about environmental Pollution 13	11	work accident	losses that occur in work accidents and can explain statistics on work accidents and occupational	1.100 marks if all answers are correct (100%) 70 marks if any answers are wrong 2.30%, 50 marks if there is a wrong answer 50% Form of Assessment :	discussions, questions and answers, exercises and assignments		5%
about air pollution. Pollution pollution. (Advanced) are correct (100%) 70 marks if 30 % of the answers are wrong Mark 50 if 50 % of the answers are wrong Mark	12	about Environmental	about air	100 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong Mark 50 if 50 % of the answers	discussions, questions and answers, exercises and assignments		0%
about Environmental Pollution about Water Pollution Porm of Assessment: Participatory Activities Pollution Pollu	13	about Environmental	about air pollution.	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	discussions, questions and answers, exercises and assignments		5%
about Environmental Pollution about Soil Pollution 100 marks if all answers are correct (100%) 70 marks if 30 % of the answers are wrong Mark 50 if 50 % of th	14	about Environmental	about Water	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	discussions, questions and answers, exercises and assignments		5%
EXAMINATION (UAS) SEMESTER EXAMINATION (UAS) ACCORDING TO THE ANSWER KEY IN THE FINAL SEMESTER EXAMINATION (UAS) Form of Assessment: SEMESTER EXAMINATION (UAS) SEMESTER EXAMINATION (UAS) 2 X 50	15	about Environmental	about Śoil	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	discussions, questions and answers, exercises and assignments		5%
	16	EXAMINATION	SEMESTER EXAMINATION	ACCORDING TO THE ANSWER KEY IN THE FINAL SEMESTER EXAMINATION (UAS)	SEMESTER EXAMINATION (UAS)		30%

Evaluation Percentage Recap: Case Study

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No	Evaluation	Percentage				
1.	Participatory Activities	50%				
2.	Test	50%				
		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.
- 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.
- 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.
- 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.
- 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.