Document Code



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

### **SEMESTER LEARNING PLAN**

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Courses		CODE	Course Family	mily		lit Wei	ight	SEMESTER	Compilation Date		
K3 & LABOR LAW			8320302043	Compulsory Study Program Subjects		T=2	P=0	ECTS=3.18	3	July 17, 2024	
AUTHORIZA	TION		SP Developer	- 1 Togram Gabjeoto	Course	Clus	ter Co	ordinator	Study Program Coordinator		
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Learning model	Case Studies										
Program	PLO study pro	rogram that is charged to the course									
Learning Outcomes	PLO-5	Have social competence and personality competence in mechanical engineering education									
(PLO)	PLO-7	Have	Have an understanding of technopreneurship in the field of automotive/production technology								
	PLO-8	Able to carry out maintenance and repairs in the automotive engineering field (automotive concentration) or able to operate various production equipment and machines in the manufacturing sector (production concentration)									
	Program Objectives (PO)										
	PO - 1	Descri	bes the scope, objective	es and functions of K3							
	PO - 2	Classi	fy K3 regulations and ad	ccident prevention principle	es .						
	PO - 3	Calcul	ate the danger standard	d for the Threshold Limit Va	alue (NAE	3) of h	uman	physical facto	ors		
	PO - 4	Plan the handling and relief actions for work accidents									
	PO - 5	Categ	orizing types and using	Personal Protective Equip	ment (PP	E)					
	PO - 6	Analyz	e the implementation o	f the Occupational Safety a	and Healt	h Man	agem	ent System (S	SMK3) in indust	try	
	PLO-PO Matrix										

P.O	PLO-5	PLO-7	PLO-8
PO-1			
PO-2			
PO-3			
PO-4			
PO-5			
PO-6			

#### 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																
PO-4																
PO-5																
PO-6																

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, implementing 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. 5. UU No. 1 tahun 1970 Tentang keselamatan Kerja 6. Undang-undang (UU) Nomor 13 Tahun 2003 tentang Ketenagakerjaan T.E.U. Indonesia, Pemerintah Pusat

Supporters:

Supporting lecturer

Muamar Zainul Arif, S.Pd., M.Pd. Bima Anggana Widhiarta Putra, S.Pd., M.Pd.

7. ISO 45001 2018 Tentang Sistem Manajemen K3

Week-	Final abilities of each learning stage	Eva	luation	Learn Studen	p Learning, ing methods, t Assignments, imated time]	Learning materials [ References	Assessment Weight (%)	
	(Sub-PO)	Indicator Criteria & Form		Offline ( offline )	Online ( online )	]		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
1	Students are able to describe the scope, b. Students are able to connect purpose and function	1.Accuracy in explaining the scope of K3     2.Accuracy in explaining the relationship between K3 objectives and functions	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 2 X 50		Material: Introduction to K3 Literature: Suma 19mur. 1995. Work Safety and Accident Prevention	5%	
2	Able to understand K-3 as a Multi- Discipline	Can explain K-3 as Multi-Disciplinary	Form of Assessment : Participatory Activities	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		Material: K-3 as Multi Disciplinary Science Library: Suma 19mur. 1995. Work Safety and Accident Prevention	5%	
3	Classifying K3 regulations	Accuracy in ordering K3 rules from highest to lowest	Criteria: Expressing opinions, presentations  Form of Assessment: Project Results Assessment / Product Assessment	Lectures, discussions, questions and answers, exercises and assignments 2 X 50		Material: K3 Regulations Reference: Law no. 1 of 1970 concerning work safety	5%	
4	a). Describe the principles of accident prevention, b). Compile a job safety analysis	1.Accuracy     explains the     principles of     accident     prevention     2.Accuracy in     formulating job     safety analysis	Criteria: Able to compile JSA  Form of Assessment: Project Results Assessment / Product Assessment	Discussion, questions and answers, and assignments 2 X 50			5%	
5	Calculate the danger standard for the Threshold Limit Value (NAB) of human physical factors	Accuracy of calculating NAB frequency radiation, ultraviolet radiation, static magnetic fields	Criteria: Calculating NAV  Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment	Lectures, exercises and assignments 2 X 50		Material: NAB Physical Factors Reference: Anizar. 2009. Occupational Safety and Health Engineering in Industry	5%	
6	Calculating hazard standards for the Threshold Limit Value (NAB) of human physical factors (Continuation 2)	Accuracy of calculating the NAB of working climate, noise, vibration	Criteria: Calculating NAV  Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment	Lectures, exercises and assignments 2 X 50			5%	

7	Plan the handling and relief actions for work accidents	1.Accuracy in carrying out first aid measures for work accidents     2.Accuracy in designing work accident relief measures	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  Form of Assessment: Participatory Activities, Practice/Performance	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Material: first aid measures for work accidents Library: Suma 19mur. 1995. Work Safety and Accident Prevention	10%
8	MIDDLE SEMESTER EXAMINATION (UTS)		Criteria: COMPATIBILITY WITH ANSWER KEY Form of Assessment: Test	MIDDLE SEMESTER EXAMINATION (UTS) 2 X 50		10%
9	Planning work accident handling and relief measures (continued 2)	1.1. Accuracy in describing occupational diseases     2.2. Accuracy of fire handling	Criteria: understand fire handling procedures  Form of Assessment: Participatory Activities, Practice/Performance	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Material: Fire management Reference: Suma 19mur. 1995. Work Safety and Accident Prevention	10%
10	Plan the handling of chemicals and industrial materials	1.Can explain management and operational policies, work performance and explain unsafe actions and conditions. 2.Accuracy in describing chemicals and industrial materials 3.Accurate handling of chemicals and industrial materials	Criteria: Expressing opinions, presentations	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Material: Industrial materials and materials Library: Anizar. 2009. Occupational Safety and Health Engineering in Industry	5%
11	Categorizing types and using Personal Protective Equipment (PPE)	Accuracy in describing the types of PPE	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 Form of Assessment: Participatory Activities	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Material: PPE Library: Law (UU) Number 13 of 2003 concerning Indonesian TEU Employment, Central Government	5%
12	Categorizing types and using Personal Protective Equipment (PPE) Continued 2	1.Accuracy in selecting PPE     2.Accuracy in carrying out PPE maintenance	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	Material: PPE Library: Suma 19mur. 1995. Work Safety and Accident Prevention	5%
13	Occupational Safety and Health Management System (SMK3)	Accuracy of analyzing the application of SMK3 in industry and workshops	Criteria: Form of Assessment : Participatory Activities	Lectures, discussions, questions and answers, exercises and assignments 2 X 50	Material: K3 management system Reference: ISO 45001 2018 About K3 Management Systems	10%
14	Observation of K3 implementation	Able to analyze the implementation of K3 in industry/workshops	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, Project Results Assessment / Product Assessment	assignment 2 X 50		10%

15	Observation of K3 implementation	Able to analyze the implementation of K3 in industry/workshops (continued)	100 marks if all answers are correct	assignment 2 X 50	Material: Vocational School system 3 Reference: ISO 45001 2018 Concerning K3 Management Systems	10%
16	FINAL SEMESTER EXAMINATION (UAS)	FINAL SEMESTER EXAMINATION (UAS)	Criteria: ACCORDING TO THE ANSWER KEY IN THE FINAL SEMESTER EXAMINATION (UAS)	FINAL SEMESTER EXAMINATION (UAS) 2 X 50		0%

**Evaluation Percentage Recap: Case Study** 

No	Evaluation	Percentage						
1.	Participatory Activities	55%						
2.	Project Results Assessment / Product Assessment	25%						
3.	Practice / Performance	10%						
4.	Test	10%						
		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.
- 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.
- 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 guantitative 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.