

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

Document Code

SEMESTER LEARNING PLAN

Courses		CODE		Cour	Course Family		Credit Weight			SEI	MESTER	Compilation Date			
Ergonom	Ergonomics		8320302028					T=2		P=0	ECTS=3.	18	8	July 18, 202	
AUTHORIZATION		SP Developer				Course Cluster Coordinator					Study Program Coordinator				
													Ir.		wi Kurniawan ., M.Pd.
Learning model		Case Studies		<u>I</u>											
Program		PLO study program that is charged to the course													
Learning Outcome		Program Objectives (PO)													
(PLO)		PLO-PO Matrix													
					⁵ .0										
		PO Matrix at the end of each learning stage (Sub-PO)													
			F	P.O						Wee	k				
					1	2 3 4	5	6 7	8	9	10	11 12	13	14	15 16
							4 <u>1</u>		_					- ļļ	
Short Course Descript	tion	This course prov environments wit being able to des healthy, safe, cor analyze the physi	h hun ign pro nfortal	nan a oduct ble a	bilities is and wind effici	and limitatior /ork systems ent environm	ns in the that con ent whic	eir effor nply wit ch ultim	ts to in h ergon ately cr	crease iomic i	e com rules s	fort in thei	work	environm Iditions a	ent, as well a e achieved &
Reference	ces	Main :													
		Yang Tin 5. Effendi, F 6. Mc. Corn	yanti. ; Freiv 200 ggi & =. 200 nic EJ	1996 valds 7. Ap Keun 7. Er . 197	i. Tata k , A. 200 likasi K ggulan gonomi 1. Huma	Kerja & Produ 4. Methods, S onsep Ergon Bersaing. Se Bagi Pekerja	ktivitas Standaro omi Dal minar N Informa Engineer	Kerja . ds & Wo am Per asional a I. Cerr ring . M	Penerbi ork Des ngemba : Ergor nin Dun c, Graw	it Man ign . M angan nomic ia Kec	dar Ma IcGrav Desai in Prod loktera	aju Bandur w Hill. In Produk a duct Develo an. No.154	g. akan M opment	emberika	n Jual Produ
		Supporters:													
Supporti lecturer	ing	I MADE MULIATI Dyah Riandadari,		М.Т.											
Week- eac				Evaluation ndicator Criteria & F			Form			Help Learning, Learning methods, Student Assignments, [Estimated time] ine (Online (online)		m	earning aterials [ferences	Assessmer Weight (%)	
				Gittena d					line)]			
(1)		(2)		(3)		(4)		(5)		((6)		(7)	(8)

1	Can describe Ergonomics	1. Explain the meaning of ergonomics 2. State the scope of ergonomics.	Criteria: Perfect score if answered correctly	Reading literature and listening to students' explanations 2 X 50	0	%
2	Describing Human Machine Systems	1. Explain the meaning 2. State 3. Explain the relationship	Criteria: Perfect score if answered correctly	Reading literature and discussions. 2 X 50	0	%
3	Can describe Motion Study & Work Design	1. Explain the meaning 2. State 3. Explain the principles of economic movement 4. Explain the procedures	Criteria: Excellent marks if answered correctly	Reading literature and listening to learner explanations and discussions 2 X 50	0	%
4	Can describe Anthropometry	1. Explain the meaning 2. Mention the types of anthropometric data 3. Explain anthropometric procedures 4. Measure using anthropometric methods	Criteria: Perfect score if answered correctly	Read literature and listen to learner explanations and discussions. 2 X 50	0	%
5	Can describe Anthropometry	1. Explain the meaning 2. Mention the types of anthropometric data 3. Explain anthropometric procedures 4. Measure using anthropometric methods	Criteria: Perfect score if answered correctly	Read literature and listen to learner explanations and discussions. 2 X 50	0	%
6	Can describe Ergonomics Applications for Workplace Design	 Explaining the description Mentioning Explaining the procedure 	Criteria: Perfect score if answered correctly	Read literature and listen to learner explanations and discussions. 2 X 50	O	%
7	Can describe Ergonomics Applications for Workplace Design	1. Explain the procedure 2. Apply ergonomics	Criteria: Perfect score if answered correctly	Read literature and listen to learner explanations and discussions. 2 X 50	0	%
8	Midterm Examination (UAS)			2 X 50	0'	%
9	Can describe Energy Consumption for Heavy Work Activities	1. Explain the meaning 2. Mention	Criteria: Perfect score if answered correctly	Reading literature and listening to learner explanations and discussions 2 X 50	0	%
10	Can describe Work Methodology Optimization	1. Explain the meaning 2. State 3. Explain the procedure	Criteria: Perfect score if answered correctly	Reading literature and listening to learner explanations and discussions 2 X 50	0	%
11	Able to understand and describe biomechanics.	Can explain biomechanics.		Lectures, discussions, exercises. 2 X 50	0	%

12	Can describe work environment factors	Explain the meaning of work environment factors that support performance	Criteria: Perfect score if answered correctly	Reading literature and listening to learner explanations and discussions 2 X 50		0%
13	Can describe Workplace Design	1. Explain the meaning of workplace design 2. State the importance of designing the workplace 3. Identify the need for workplace design	Criteria: Perfect score if answered correctly	Reading literature and listening to learner explanations and discussions 2 X 50		0%
14	Can describe work fatigue & rest time	1. Explain the meaning of fatigue and rest time. 2. Identify the causes of fatigue and the time needed for rest		Reading literature and listening to learner explanations and discussions 2 X 50		0%
15						0%
16	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.
- 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, 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.