

(1)

(2)

(3)

(4)

(5)

(6)

(8)

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

Document Code

SEMESTER LEARNING PLAN Course Family Credit Weight

Courses		CODE		Cours	Course Family		Credit Weight		SEMI	ESTER	Compilation Date		
Machining Practice		83203	03142				T=3	P=0	ECTS=4.77		0	July 18, 2024	
AUTHORIZATION		SP De	SP Developer		Course	Clus	ter Co	ordinator	Study	y Progra dinator	am		
								Ir. W	Ir. Wahyu Dwi Kurniawan, S.Pd., M.Pd.				
Learning model		Case Studie	es				J						
Program		PLO study	program t	that is ch	arged to the	course							
Learning Outcome		Program O	bjectives	(PO)									
(PLO)		PLO-PO Ma	atrix										
			Р	2.0									
		PO Matrix a	nt the end of each learning stage (Sub-PO)										
			P.O	P.O Week									
				1 2	3 4 5	6	7 8	9	10	11 12	13	14	15 16
				1	l l		l e			l l		1	
Short Course Descript	ion	Skilled in magrinding mad	achining pr chines, drilli	ocess wo	rk using vario es, and sawin	us mach g machin	ine tools es to pro	such duce a	as: la a prod	athes, millinq uct.	g machi	ines, sc	rap machines,
Reference	ces	Main :											
2. [2] Dary 3. [3] Krar,		aryanto. 19 (rar, S.F., A	987. Mesin mand, J.W	. 2004. Petunj Pengerjaan L /., Oswald, J.E n-Mesin Perka	ogam. Ba St., 199	andung: I 6. Machi	Penerl	bit Tar ol Ope	rsito. eration&rdqu			,	
Supporters:		:											
			•										
Supporting lecturer Dr. Djoko Suwitc Dr. Yunus, M.Pd Ir. Wahyu Dwi K		wito, M.Pd. 1.Pd.											
Week-	of e	al abilities ach ning	bilities n Evaluation			Help Learning, Learning methods, Student Assignments, [Estimated time]			mat	Learning materials [References	Assessment Weight (%)		
		b-PO)	Indicato	Crit	eria & Form	Offl	ine (0	nline	(online)]	

			T	T	T	
1	Students are skilled in working using a lathe	Skilled in gripping workpieces on a lathe. Skilled at installing lathe chisels. Skilled in regulating the rotation speed of the lathe. Skilled in turning faces, flats, grooves, tapers, threads, and cartels based on job sheets. Prepare lathe process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Field work, guided practice 3 X 50		0%
2	Students are skilled in working using a lathe	Skilled in gripping workpieces on a lathe. Skilled at installing lathe chisels. Skilled in regulating the rotation speed of the lathe. Skilled in turning faces, flats, grooves, tapers, threads, and cartels based on job sheets. Prepare lathe process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Field work, guided practice 3 X 50		0%
3	Students are skilled in working using a lathe	Skilled in gripping workpieces on a lathe. Skilled at installing lathe chisels. Skilled in regulating the rotation speed of the lathe. Skilled in turning faces, flats, grooves, tapers, threads, and cartels based on job sheets. Prepare lathe process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Field work, guided practice 3 X 50		0%

4	Students are	Skilled in	Criteria:	Approach		004
*	students are skilled in working using a lathe	skilled III gripping workpieces on a lathe. Skilled at installing lathe chisels. Skilled in regulating the rotation speed of the lathe. Skilled in turning faces, flats, grooves, tapers, threads, and cartels based on job sheets. Prepare lathe process work reports.	According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Field work, guided practice 3 X 50		0%
5	Students are skilled in working using a lathe	Skilled in gripping workpieces on a lathe. Skilled at installing lathe chisels. Skilled in regulating the rotation speed of the lathe. Skilled in turning faces, flats, grooves, tapers, threads, and cartels based on job sheets. Prepare lathe process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Field work, guided practice 3 X 50		0%
6	Students are skilled in working using a lathe	Skilled in gripping workpieces on a lathe. Skilled at installing lathe chisels. Skilled in regulating the rotation speed of the lathe. Skilled in turning faces, flats, grooves, tapers, threads, and cartels based on job sheets. Prepare lathe process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Field work, guided practice 3 X 50		0%

				I		1
7	Students are skilled in working using a lathe	Skilled in gripping workpieces on a lathe. Skilled at installing lathe chisels. Skilled in regulating the rotation speed of the lathe. Skilled in turning faces, flats, grooves, tapers, threads, and cartels based on job sheets. Prepare lathe process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Field work, guided practice 3 X 50		0%
8	Students are skilled in working using a lathe	Skilled in gripping workpieces on a lathe. Skilled in installing lathe chisels. Skilled in regulating the rotation speed of the lathe. Skilled in turning faces, flats, grooves, tapers, threads, and cartels based on job sheets. Prepare lathe process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Field work, guided practice 3 X 50		0%
9	Students are skilled in working using a lathe	Skilled in gripping workpieces on a lathe. Skilled at installing lathe chisels. Skilled in regulating the rotation speed of the lathe. Skilled in turning faces, flats, grooves, tapers, threads, and cartels based on job sheets. Prepare lathe process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Field work, guided practice 3 X 50		0%

					T	,
10	Students are skilled in working using milling machines	Skilled in gripping workpieces on a milling machine. Skilled at installing chisels. Skilled in regulating the rotation speed of the milling machine. Skilled in making bolt heads and gears based on job sheets. Prepare milling process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Hands-on practice in the 3 X 50 machining shop		0%
11	Students are skilled in working using milling machines	Skilled in gripping workpieces on a milling machine. Skilled at installing milling chisels. Skilled in regulating the rotation speed of the milling machine. Skilled in making bolt heads and gears based on job sheets. Prepare milling process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Hands-on practice in the 3 X 50 machining shop		0%
12	Students are skilled in working using milling machines	Skilled in gripping workpieces on a milling machine. Skilled at installing milling chisels. Skilled in regulating the rotation speed of the milling machine. Skilled in making bolt heads and gears based on job sheets. Prepare milling process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Hands-on practice in the 3 X 50 machining shop		0%

13	Students are skilled in working using milling machines	Skilled in gripping workpieces on a milling machine. Skilled at installing milling chisels. Skilled in regulating the rotation speed of the milling machine. Skilled in making bott heads and gears based on job sheets. Prepare milling process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Hands-on practice in the 3 X 50 machining shop		0%
14	Students are skilled in working using milling machines	Skilled in gripping workpieces on a milling machine. Skilled at installing milling chisels. Skilled in regulating the rotation speed of the milling machine. Skilled in making bolt heads and gears based on job sheets. Prepare milling process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Hands-on practice in the 3 X 50 machining shop		0%
15	Students are skilled in working using milling machines	Skilled in gripping workpieces on a milling machine. Skilled at installing milling chisels. Skilled in regulating the rotation speed of the milling machine. Skilled in making bolt heads and gears based on job sheets. Prepare milling process work reports.	Criteria: According to the performance assessment rubric	Approach: Project-based learning Method: Demonstration Model: MPL Strategy: Hands-on practice in the 3 X 50 machining shop		0%
16						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.
- 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 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.
- 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.