



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

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Mechanical Technology	2120102094		T=2	P=0	ECTS=3.18	1	July 18, 2024
AUTHORIZATION	SP Developer		Course Cluster Coordinator			Study Program Coordinator	
			Ir. Priyo Heru Adiwibowo, S.T., M.T.	
Learning model	Case Studies						
Program Learning Outcomes (PLO)	PLO study program that is charged to the course						
	Program Objectives (PO)						
	PLO-PO Matrix						
		<table border="1" style="margin: auto;"> <tr><td style="width: 100px; height: 20px;">P.O</td></tr> </table>					
P.O							
Short Course Description	The Mechanical Technology course discusses the introduction of various ways of using various mechanical work tools as well as making objects and production machines. foundry base; joint forming and cutting; processing machines; non-conventional manufacturing processes; electroplating; influence of manufacture on surface finish; specifications in the design and implementation of the manufacturing process; conformity and tolerance of shape and size.						
	References						
References	Main :						
	1. · Amsted B.H.,dkk.1991.Teknologi Mekanik Jilid 1.Jakarta: PT.Gelora Aksara Pratama 2. · Amsted B.H.,dkk.2005.Teknologi Mekanik Jilid 2.Jakarta: PT.Gelora Aksara Pratama 3. · Schey.John,A.2009.Introduction to Manufacturing Processes/Proses Manufaktur.Yogyakarta:Penerbit Andi 4. · Schonmetz Alois. Ing,dkk. 1985.Pekerjaan Logam Dengan Perkakas Tangan Dan Mesin Sederhana.Bandung:Penerbit Angkasa 5. · Suratman Maman,S.P.d.2007.Teknik Mengelas.Bandung:Pustaka Grafika 6. Ebook pdf : 7. · Singh Rajender.2006.Introduction to Basic Manufacturing Processes and Workshop Technology.New Age International (P) Limited Publisher:New Delhi 8. · ICT base (information, Communication, Technology) by Internet supporting. 9. Dll...						
Supporting lecturer	Supporters:						
	Dr. Soeryanto, M.Pd. Mochamad Arif Irfai', S.Pd., M.T. Firman Yasa Utama, S.Pd., M.T. Andita Nataria Fitri Ganda, S.T., M.Sc.						
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	Understand the basic concepts of Mechanical Technology	1.1. Know the basic concepts of Mechanical Technology 1.2. Develop character behavior, including: honesty, discipline, and responsibility. 1.3. Develop social skills, including: asking questions, arguing and respecting each other.	Criteria: Attendance Percentage Punctuality Compilation of reports and presentations Innovation and ideas	Model: Problem Based Learning / Problem Based Learning Method: Lecture, simulation, discussion, problem solving, question and answer Strategy: Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 2 X 50			0%
2	Understand the basic concepts of Mechanical Technology	1.1. Know the basic concepts of Mechanical Technology 1.2. Develop character behavior, including: honesty, discipline, and responsibility. 1.3. Develop social skills, including: asking questions, arguing and respecting each other.	Criteria: Attendance Percentage Punctuality Compilation of reports and presentations Innovation and ideas	Model: Problem Based Learning / Problem Based Learning Method: Lecture, simulation, discussion, problem solving, question and answer Strategy: Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 2 X 50			0%
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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.
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, 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.