

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

Document Code

## SEMESTER LEARNING PLAN

Courses		CODE		Course F	amily	Credit We		ight	SEMESTER	Compilation Date			
CAD		832030	2015			T=2	P=0	ECTS=3.18	5	July 17, 2024			
AUTHORIZATION		SP Dev	SP Developer		Cou	Course Cluster Coordinator			Study Program Coordinator				
										Ir. Wahyu Dwi Kurniawan, S.Pd., M.Pd.			
Learning model	I	Case Stu	Case Studies										
Program		PLO study program which is charged to the course											
Learning Outcom		Program Objectives (PO)											
(PLO)		PLO-PO Matrix											
		P.O											
		PO Matri	x at the en	d of each lea	rning sta	ge (Sub-P	0)						
			P.0	P.O Week									
				1 2 3	4 5	6 7	89	10	11 12	13 14	15 16		
Short Course Descript	Understanding of drawing Mechanical Engineering designs with computer assistance in 2 Dimensional and Dimensional forms according to ISO standards.										ensional and 3		
References		Main :											
		<ol> <li>Tutorial AutoCAD dan Tutorial Inventor</li> <li>Darmawan, Djoko. 2004. Autocad 2002 untuk Teknik Mesin dan Industri. Jakarta: Elexmedia Komputindo</li> <li>Santoso, Khomeni. 2009. Menggambar Mesin dengan Perintah Autocad. Jakarta: PT. Indeks</li> <li>Sugiarto, N &amp; G. Takhesi Sato. 2002. Menggambar Teknik Menurut Standar ISO. Jakarta: PradnyaParamita</li> <li>Hidayat, Nur &amp; Ahmad Shanhaji. 2011. Autodesk Inventor: Mastering 3D Mechanical Design. Jakarta: Informatika</li> </ol>											
		Supporters:											
Support lecturer		Akhmad H	lafizh Ainur I	Rasyid, S.T., N	И.Т.								
Week-	eac lear	lities of h rning		Evaluation		Le Stuc	arning ent As	elp Learning, ning methods, nt Assignments, stimated time]		Learning materials [ References	Assessment Weight (%)		
	sta (Su	ge b-PO)	Indicator	ndicator Criteria &		Offline( <i>offline</i> )	C	Online	( online )	1			
(1)		(2)	(3)	(4)		(5)		(	(6)	(7)	(8)		

1	Get to know the display, how to set the size of the image area, create line images, and delete images	Students can open and use existing toolbars	Criteria: Students' understanding and ability to understand the material	Lectures, discussions, exercises 2 X 50		0%
2						0%
3						0%
4						0%
5						0%
6						0%
7						0%
8						0%
9						0%
10						0%
11						0%
12						0%
13						0%
14						0%
15						0%
16						0%

Evaluation Percentage Recap: Case Study

No Evaluation Percentage 0%

Notes

- 1. 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.
- 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.