

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

Document Code

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Courses				CODE	E			Cour	se Fa	mily	,	Cred	dit We	eight		SEM	IESTER	Com Date	pilation
Basic Dra	awin	g		8320302073				T=2	P=1	ECT	5=4.77		1	July 1	18, 2024				
AUTHORIZATION			SP Developer					Course Cluster Coordinator				Study Program Coordinator							
									Ir. V			Ir. Wahyu Dwi Kurniawan, S.Pd., M.Pd.							
Learning model		Case Studies	;																
Program Learning		PLO study p	rogra	am th	at is	char	ged to	the c	ours	е									
Outcom (PLO)		Program Ob	jectiv	es (P	PO)											Study Program Coordinator  Ir. Wahyu Dwi Ku S.Pd., M.P  13 14 15  ems  kebudayaan. lan Kebudayaan. Grafika.  Learning materials Ass			
(FLO)		PLO-PO Mat	rix																
			P.O																
		PO Matrix at the end of each learning stage (Sub-PO)																	
			P	P.O						1			Week		10 1 11		15 10		
					1	2	3 4	5	6	7	8	9	10	11	12	13	14	15	16
Short Course Descript	tion	Students can	unders	stand	how	to use	drawin	g tools	s, und	lersta	ind pro	ojectio	on and	cutting	g systei	ns			
Reference	ces	Main :																	
<ol> <li>Anwari. 1978. Menggambar Teknik Mesin 2. Jakarta: Departemen Pendidikan dan kebudayaan.</li> <li>Baharudin Yakob. 1979. Menggambar Mesin 3. Jakarta: Departemen Pendidikan dan Kebudayaar</li> <li>Juhana Ohan, Suratman. M. 2000. Menggambar Teknik Mesin. Bandung: Pustaka Grafika.</li> <li>Marbun, Moyn. 1993. Menggambar Teknik Mesin. Bandung: Penerbit M2S.</li> <li>Sato Takhesi, Sugiarto. 1986. Menggambar Mesin. Jakarta: Pradnya Paramita.</li> <li>Yogaswara, Eka. 2004. Membaca Gambar Teknik SMK. Bandung: Armico</li> </ol>								n.											
		Supporters:																	
Support lecturer	ing	Agung Prijo B Akhmad Hafiz	udijono h Ainu	o, S.T ır Ras	., M. syid,	T. S.T., M	1.T.												
Week-	of e	nal abilities each arning stage		Evaluation					Student Assignments, material [Estimated time]		terials [	Assessment Weight (%)							
	(Su	b-PO)	Ind	licato	r	Crite	eria & F	orm	(	Offlin	e (	0	nline	( onli	ne )		1		

Offline ( offline )

(5)

Online (online)

(6)

(8)

(7)

Criteria & Form

(4)

Indicator

(3)

(1)

(2)

1	Able to mention various technical drawing tools and draw lines and letters	Identifying drawing tools that suit your needs. Determining drawing tools that suit your needs	Criteria: Compliance with the answer key gets a score of 100	Approach: Contextual based learning Method: Question and answer lecture Model: Direct learning Strategy: 2 X 50 exercises and assignments		0%
2	Able to draw pictorials	Skilled at drawing pictorials using various rules	Criteria: Compliance with the answer key gets a score of 100	Approach: Contextual based learning Method: Question and answer lecture Model: Direct learning Strategy: 2 X 50 exercises and assignments		0%
3						0%
4	Understand various technical drawing tools	Identifying drawing tools that suit your needs. Determining drawing tools that suit your needs	Criteria: Compliance with the answer key gets a score of 100	Approach: Contextual based learning Method: Question and answer lecture Model: Direct learning Strategy: 2 X 50 exercises and assignments		0%
5						0%
6						0%
7	Understand various technical drawing tools	Identifying drawing tools that suit your needs. Determining drawing tools that suit your needs	Criteria: Compliance with the answer key gets a score of 100	Approach: Contextual based learning Method: Question and answer lecture Model: Direct learning Strategy: 2 X 50 exercises and assignments		0%

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8	UTS	UTS	Criteria: Compliance with the answer key gets a score of 100	Approach: Contextual based learning Method: Question and answer lecture Model: Direct learning Strategy: 2 X 50 exercises and assignments		0%
9	Understand various technical drawing tools	Identifying drawing tools that suit your needs. Determining drawing tools that suit your needs	Criteria: Compliance with the answer key gets a score of 100	Approach: Contextual based learning Method: Question and answer lecture Model: Direct learning Strategy: 2 X 50 exercises and assignments		0%
10	Understand various technical drawing tools	Identifying drawing tools that suit your needs. Determining drawing tools that suit your needs	Criteria: Compliance with the answer key gets a score of 100	Approach: Contextual based learning Method: Question and answer lecture Model: Direct learning Strategy: 2 X 50 exercises and assignments		0%
11	Understand various technical drawing tools	Identifying drawing tools that suit your needs. Determining drawing tools that suit your needs	Criteria: Compliance with the answer key gets a score of 100	Approach: Contextual based learning Method: Question and answer lecture Model: Direct learning Strategy: 2 X 50 exercises and assignments		0%
12	Understand various technical drawing tools	Identifying drawing tools that suit your needs. Determining drawing tools that suit your needs	Criteria: Compliance with the answer key gets a score of 100	Approach: Contextual based learning Method: Question and answer lecture Model: Direct learning Strategy: 2 X 50 exercises and assignments		0%

13	Understand various technical drawing tools	Identifying drawing tools that suit your needs. Determining drawing tools that suit your needs	Criteria: Compliance with the answer key gets a score of 100	Approach: Contextual based learning Method: Question and answer lecture Model: Direct learning Strategy: 2 X 50 exercises and assignments		0%
14	Understand various technical drawing tools	Identifying drawing tools that suit your needs. Determining drawing tools that suit your needs	Criteria: Compliance with the answer key gets a score of 100	Approach: Contextual based learning Method: Question and answer lecture Model: Direct learning Strategy: 2 X 50 exercises and assignments		0%
15	Understand various technical drawing tools	Identifying drawing tools that suit your needs. Determining drawing tools that suit your needs	Criteria: Compliance with the answer key gets a score of 100	Approach: Contextual based learning Method: Question and answer lecture Model: Direct learning Strategy: 2 X 50 exercises and assignments		0%
16						0%

**Evaluation Percentage Recap: Case Study** 

		onited or to our pr	_
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.
- 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.