

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

Document Code

## SEMESTER LEARNING PLAN

Courses				CODE	DDE Course F		rse Fa	amily	nily Credit Weight		SEM	ESTER	Compilation Date	ו			
Harbor*			8320502148					T=2 P=0 ECTS=3.18				8 July 18, 2024		4			
AUTHORIZATION			SP Developer				Co	Course Cluster Coordinator				Study Program Coordinator					
													Dr. Gde Agus Yudha Prawira Adistana, S.T., M.T.				
Learning model		Case Studies															
Program		PLO study program that is charged to the course															
Learning		Program Ob	jectiv	/es (PO)												Date July 18, 202 gram or Agus Yudha Adistana, S.T., M.T. 15 16 eakwaters, pier ent. The learnin swers.	
(PLO)		PLO-PO Mat	rix														
			P.0														
		PO Matrix at the end of each learning stage (Sub-PO)															
				P.O Week													
			1	2 3	4	5	6	7	8	9	10	11 12	13	14	15 16		
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Short Students learn ab Course fenders and moor Description method that will be			noorir	ng equipme	nt, port	faciliti	ės or	land	, and	aspe	ects	of shi	pping guida	nče eg	uipmen	t. The learning	;, g
Reference	ces	Main :															
		<ol> <li>Bamb</li> <li>Krama</li> <li>Soren</li> </ol>	<ol> <li>Triatmodjo. 2000. Pelabuhan, Beta Offset. Yogyakarta</li> <li>Bambang Triatmodjo. 1999. Teknik Pantai. Beta Offset: Yogyakarta</li> <li>Kramadibrata. 2002. Perencanaan Pelabuhan. Penerbit ITB, Bandung</li> <li>Sorensen, R.M. 1978. Basic Coastal Engineering. John Wiley dan Sons, New York</li> <li>Undang-undang Republik Indonesia Nomor 17. 2008. Pelayaran</li> </ol>														
		Supporters:															
Supporti lecturer	ing	Purwo Maharo R. Endro Wibis															
Week	of e lear	Final abilities of each learning stage (Sub-PO) In		Evaluation					Help Learning, Learning methods, Student Assignments, [ Estimated time]			mat	rning erials [ rences		Assessment Weight (%)		
	(Su			dicator	Criteri	ia & F	orm	Of of	fline ( <i>fline</i> )	(	Or	nline (	online )	1			
(1)		(2)		(3)		(4)			(5)			(	6)		(7)	(8)	

1	Students can understand the meaning of ports and ships	Students can: - Explain the meaning of types of ports - Explain the meaning of types of ships	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%
2	Students can understand port planning criteria	Students can: - Explain port requirements and equipment - Explain port location criteria - Explain the size and shape of the port - Explain breakwaters - Explain the location and width of the port mouth	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%
3	Students understand the influence of tidal winds and waves	Students can: - Explain wind theory - Explain tidal theory - Explain wave theory	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%
4	Students understand the influence of tidal winds and waves	Students can: - Explain wind theory - Explain tidal theory - Explain wave theory	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%
5	Students understand the influence of tidal winds and waves	Students can: - Explain wind theory - Explain tidal theory - Explain wave theory	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%
6	Students understand about shipping lane planning	Students can:- Explain channel selection- Explain channel depth- Explain channel width- Explain shipping channel layouts- Explain port pools- Skilled in calculating depth areas and drawing shipping channel layouts	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%

7	Students understand about shipping lane planning	Students can:- Explain channel selection- Explain channel depth- Explain channel width- Explain shipping channel layouts- Explain port pools- Skilled in calculating depth areas and drawing shipping channel layouts	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%
8	Midterm exam	-	Criteria: Full marks are obtained if you do all the questions correctly	- 2 X 50		0%
9	Students understand wave breaker planning and are skilled in wave breaker calculations	Students can: - Explain the types of breakwaters - Skilled in calculating the stability of protective layered rock - Skilled in calculating the dimensions of breakwaters - Skilled in planning wave runup	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%
10	Students understand wave breaker planning and are skilled in wave breaker calculations	Students can: - Explain the types of breakwaters - Skilled in calculating the stability of protective layered rock - Skilled in calculating the dimensions of breakwaters - Skilled in planning wave runup	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%
11	Students understand about dock planning	Students can: - Explain the types of piers - Describe the wharf - Describe the pier or jetty - Explain the size of the wharf - Understand the forces acting on the wharf	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%

12	Students understand about dock planning	Students can: - Explain the types of piers - Describe the wharf - Describe the pier or jetty - Explain the size of the wharf - Understand the forces acting on the wharf	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%
13	Students understand about fender planning and mooring tools	Students can: - Explain the types of fenders - Explain the position of the fender - Explain the mooring device - Understand the forces acting on the dolphin	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%
14	Students understand about port facilities on land	Students can:- Explain piece goods terminals- Explain bulk goods terminals- Explain container terminals	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		0%
15	Students understand about shipping guidance tools	Students can: - Explain fixed construction guidance equipment - Explain floating construction navigation guidance equipment	Criteria: Full marks are obtained if you do all the questions correctly	Discussion lectures and questions and answers 2 X 50		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.