

Universitas Negeri Surabaya Vocational Faculty, D4 Transportation Study Program

Document Code

SEMESTER I FARNING PLAN

SEMESTER LEARNING PLAN																				
Courses		CODE			Course Fam		nily	ily Credit Weight			;	SEME	STER	Con	npilat	ion				
Harbor		3930102035			Н	Harbor				T=2	T=2 P=0 ECTS=		TS=3	.18	5	5	July	16, 2	024	
AUTHORIZATION			SP Developer			С	Course Cluster Coordinator				Study Program Coordinator									
		R. Endro Wibisono, S.Pd., M.T.				Amanda Ristriana Pattisinai, S.T., M.T.			i,	Dr. Anita Susanti, S.Pd., M.T.										
Learning Case Studies model																				
Program	PLO study p	rogra	am that is ch	argeo	d to	the	cou	rse												
Learning Outcomes (PLO)	PLO-7		to carry out wessionally.	ork an	nd e	entre	prene	ursh	p in	the	field	of lar	nd trai	nsport	ation	engin	eering	techn	ology	,
()	PLO-11	Able	to internalize	ethics	, no	orms	and la	aws	n ca	arryir	ng ou	t woı	rk.							
	Program Obj	ectiv	res (PO)																	
	Able to apply logical, critical, innovative, quality and measurable thinking in identifying, implementing evaluating independently and coordinating groups to solve technical and non-technical problems able to communicate verbally and in writing. Able to apply the principles of mechanics, mathematics engineering concepts to the technical design process, drawing measurement results, and design in field of land transportation engineering technology. Able to carry out design work, implementat supervision, documentation of work in the field of land transportation engineering technology according applicable standards by prioritizing principles occupational and environmental security and satisfies applications, technical references, procedures and work standards (SOP) at the Port PLO-PO Matrix								lems atics ign in nentat cordin nd sa ering	and and the ion, ig to										
				-				-				_								
			P.O																	
			PO-1																	
	PO Matrix at	the e	end of each I	earni	ng	stag	ge (S	ub-F	O)											
									-											
			P.O									We	ek							
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
		Р	O-1																	
Short Course Description									ers, ning											
References	Main :																	-		
	1. Triatmodjo. 2000. Pelabuhan, Beta Offset. Yogyakarta 2. Bambang Triatmodjo. 1999. Teknik Pantai. Beta Offset: Yogyakarta 3. Kramadibrata. 2002. Perencanaan Pelabuhan. Penerbit ITB, Bandung 4. Sorensen, R.M. 1978. Basic Coastal Engineering. John Wiley dan Sons, New York 5. Undang-undang Republik Indonesia Nomor 17. 2008. Pelayaran																			
	Supporters:																			

Supporting lecturer	Dr. Anita Susanti, S.Pd., M.T. Amanda Ristriana Pattisinai, S.T., M.T. R. Endro Wibisono, S.Pd., M.T. Kusuma Refa Haratama, S.Pd., M.Sc.

	Kusuma Refa Haratama, S.Pd., M.Sc.							
Week-	Final abilities of each learning stage		aluation	Lea Stude [E	elp Learning, rning methods, ent Assignments, estimated time]	Learning materials [References	Assessment Weight (%)	
	(Sub-PO)	Indicator	Criteria & Form	Offline (offline)	Online (<i>online</i>)	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 Form of Assessment: Participatory Activities, Tests	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 guiding tools - Explain floating construction guiding tools	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

		remange meet
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.
- 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.
- 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
- 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.