

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

Document Code

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Courses				CODE				Co	urse F	amily			Cred	lit We	eight		SEN	IESTER		ompila ate	tion
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				Heri S	uryama	n, S.Pc	d., M.F	۶d.									[Pi	Dr. Gde / rawira A	Agu dista M.T.	ana, S.	іа Т.,
Learning model	ı (Case Studies																			
Program		PLO study prog	gram th	nat is c	harge	d to th	e cou	irse													
Learning Outcomes (PLO)		Program Objectives (PO)																			
(PLO)	F	PLO-PO Matrix																			
				P.O																	
	F	PO Matrix at the end of each learning stage (Sub-PO)																			
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				1	2	3	4	5	6	7	8	9	10	1	1 1	12 1	3	14	15	16	_
Short Course Descript	tion i	Knowledge of car as the role of oc ndirect costs rest system (SMK3).	cupatior	nal hea	lth safe	ty in c	onstru	ction	(K3). 1	The bas	sic de	efinitior	ו of K	3 is c	onstru	iction w	ork ad	ccidents	ànc	direct	t and
Reference	ces I	Main :																			
		1. Andang V Jakarta: Erlangga Jakarta.S Fokusme Setia, 200	Penerbi Suma 1 Suma 19 dia, 200	t Unive L9mur I 9mur F 06, Him	rsitas PK, 197 PK, 198 punan	ndones 76, Keo 9, Kes Peratur	sia Ric celaka selama ran Pe	dley, J .an Ak atan K erunda	ohn, 2 ibat K Kerja & ng Un	2006, (t erja da & Penc dangan	terjen alam tegah n Kete	nahan) Higene an Ke enagak	Ikhtis Peru celaka erjaan	ar Ke sahaa lan, C , Pen	sehata an dar CV. Ha erbit F	an dan n Kesela aji Masa okusme	Kesel amat agung dia, E	amatan Kerja, G J, Jakarl	Ker Guni ta.Ti	ja. Jak ung Ag m Rec	karta: jung, daksi
	:	Supporters:																			
Supporti lecturer		Dr. Ir. H. Soeparn Heri Suryaman, S		.Pd.																	
Fin ead		abilities of learning			Eva	aluatio	n				ę	Learr Studen	lp Lea ning m it Assi timate	iethoi ignme	ds, ents,		ma	arning aterials [N 1	ssessi Veight	
	(Sub	-PO)	li	ndicato	or	C	Criteria	a & Fo	orm		Offlin offlin		0	nline	(onli	ne)	Refe	erences]		-	

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(1)

(2)

1	Knowledge of K3 laws as well as labor-employee relations and management according to work agreements.	 1.1. Ability to predict worker behavior in implementing professional laws/regulations 2.2. implementation of an occupational health and safety management system (SMK3). 	Criteria: 1. Score 4, if the report is made with good writing, the report data is correct, the data analysis is correct, the completeness of the report is good, and the collection time is on time 2. Score 3, if the report data is correct, the data analysis is not correct, the data analysis is not correct, the data analysis is not correct, the completeness of the report is made with good, and the collection time is on time 3. Score 2, if the report data is not correct, the data analysis is not correct, the completeness of the report is made with good, and the collection time is not on time 4. Score 1, if the report data is incorrect, the data analysis is incorrect, the data analysis is not on time 4. Score 1, if the report is not good, and the collection time is not on time Form of Assessment : Participatory Activities, Tests	1. Discussion 2. Lecture 3. Field review Students discuss components of work equipment in accordance with occupational safety and health laws, and compare the application of K3 laws as well as labor- labor and leadership relations in the field 2 X 50			5%
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3 Cet to know the need to rX is the need to rX is correct, the data analysis is correct, the data analysis is not not is not on time is not on time is not on time is not on tim		, <u>, , , , , , , , , , , , , , , , , , </u>					
lests	3	activities that can endanger the health and safety (K3) of workers in construction activities, and know	the need for K3 equipment during construction work 2. Ability to state the function of K3 equipment during construction work 3. Students are able to state the layout of K3 equipment in each room/workplace in the project	 Score 4, if the report is made with good writing, the report data is correct, the data analysis is correct, the completeness of the report is good, and the collection time is on time Score 3, if the report is made with good writing, the report is made with good writing, the report data is correct, the data analysis is not correct, the data is correct, the data completeness of the report is not good, and the collection time is on time Score 2, if the report is made with good writing, the report is not good, and the collection time is on time Score 2, if the report is not good, and the collection time is not good, and the collection time is not correct, the data analysis is not correct, the completeness of the report is made with poor writing, the report is made with poor writing, the report is not good, and the collection time is not on time Score 1, if the report is not good, and the collection time is not on time Score 1, if the report is not good, and the collection time is not on time Score 1, if the report is not good, and the collection time is not on time 	2. Lecture 3. Assignment Students discuss components of work equipment in accordance with occupational safety and health laws, and see implementation in the field		0%
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4	Students get to know the preparatory work in civil engineering buildings.	 Students are able to understand HR mobilization planning. Students are able to understand equipment mobilization planning. Students are able to understand human resource management and tools Students students understand the implementation of surveying using land measuring instruments. Students are able to mention the stages of construction preparation work (mobilization of human resources, land clearing, kit preparation, and measurements) 	Criteria: Full marks are obtained if you do all the questions correctly Form of Assessment : Participatory Activities, Tests	1. Discussion 2. Lecture 3. Assignment 1 X 50		5%
5	Students are familiar with methods of carrying out sub- structure or foundation work in civil engineering buildings.	 1.1. Students are able to state the sequence of foundation work, according to the work drawings. 2.2. Students are able to identify K3 preparation in foundation work. 3.3. Students understand the methods of implementing shallow foundations: river stone, local slabs. 	Criteria: The maximum score (100) is obtained if you do all the questions correctly Form of Assessment : Practice/Performance, Test	Lectures, class discussions, field visits 2 X 50		0%
6	Students are familiar with methods of carrying out sub- structure work or shallow foundations in civil engineering buildings.	 1.1. Students understand the method of implementing drilled foundations 2.2. Students understand the method of implementing pile foundations 3.3. Students are able to identify K3 preparation in deep foundation work. 	Criteria: The maximum score (100) is obtained if you do all the questions correctly Forms of Assessment : Participatory Activities, Practice/Performance, Tests	1. Discussion 2. Lecture 3. Assignment 2 X 50		0%
7	midterm exam	midterm exam	Criteria: midterm exam Form of Assessment : Test	midterm exam 2 X 50		0%

8	Students can get to know upper structural work: columns, beams and plates in civil engineering buildings.	 1.1. Students are able to mention the preparation stages for carrying out the work of installing printed boards or formwork by measuring elevation and perpendicularity to columns. 2.2. Students are able to identify construction K3 personnel and tools that are prepared for construction implementation. 	Criteria: The maximum score is obtained if you do all the questions correctly Form of Assessment : Participatory Activities, Tests	1. Discussion2. Lecture3. Task 3 X 50		30%
9	Students can get to know upper structural work: columns, beams and plates in civil engineering buildings.	1. Students are able to mention the stages of assembling steel column construction 2. Students are able to identify construction K3 personnel and tools that are prepared for construction implementation.	Criteria: The maximum score is obtained if you do all the questions correctly Form of Assessment : Participatory Activities, Tests	1. Discussion2. Lecture3. Tasks, or4. Field visits 2 X 50		0%
10	Students can get to know upper structural work: columns, beams and plates in civil engineering buildings.	 1.1. Students are able to mention the stages of assembling steel column construction. 2.2. Students are able to identify construction K3 personnel and tools that are prepared for construction implementation. 	Criteria: The maximum score is obtained if you do all the questions correctly Form of Assessment : Participatory Activities, Tests	1. Discussion2. Lecture3. Tasks, or4. Field visits 2 X 50		60%
11	Students can get to know the work of upper structures or structures or upper roof frames on buildings. Students can get to know the work of upper structures on bridges or highways:	 1.1. Students are able to mention the preparation stages for the implementation of the bridge's upper structure (installation of girder supports, installation of bearings, and refinement of the tread plates. 2.2. Students are able to identify construction K3 personnel and tools that are prepared for construction implementation. 	Criteria: The maximum score is obtained if you do all the questions correctly Forms of Assessment : Participatory Activities, Portfolio Assessment, Tests	1. Discussion2. Lecture3. Tasks, or4. Field visits 2 X 50		0%

12	Students can get to know the work of upper structures or structures or upper roof frames on buildings. Students can get to know the work of upper structures on bridges or highways:	 1.1. Students are able to mention the preparation stages for the implementation of the bridge's upper structure (installation of girder supports, installation of bearings, and refinement of the tread plates. 2.2. Students are able to identify construction K3 personnel and tools that are prepared for construction implementation. 	Criteria: The maximum score is obtained if you do all the questions correctly Forms of Assessment : Participatory Activities, Portfolio Assessment, Tests	1. Discussion2. Lecture3. Tasks, or4. Field visits 2 X 50		0%
13	Students can get to know the work of upper structures or structures or upper roof frames on buildings. Students can get to know the work of upper structures on bridges or highways:	 1.1. Students are able to mention the preparation stages for the implementation of the bridge's upper structure (installation of girder supports, installation of bearings, and refinement of the tread plates. 2.2. Students are able to identify construction K3 personnel and tools that are prepared for construction implementation. 	Criteria: The maximum score is obtained if you do all the questions correctly Forms of Assessment Participatory Activities, Portfolio Assessment, Tests	1. Discussion2. Lecture3. Tasks, or4. Field visits 2 X 50		0%
14	Students can get to know the work of upper structures or structures or upper roof frames on buildings. Students can get to know the work of upper structures on bridges or highways:	 1.1. Students are able to mention the preparation stages for the implementation of the bridge's upper structure (installation of girder supports, installation of bearings, and refinement of the tread plates. 2.2. Students are able to identify construction K3 personnel and tools that are prepared for construction implementation. 	Criteria: The maximum score is obtained if you do all the questions correctly Form of Assessment : Participatory Activities, Practice/Performance	1. Discussion2. Lecture3. Tasks, or4. Field visits 2 X 50		0%
15	Students can get to know the work of upper structures or structures or upper roof frames on buildings. Students can get to know the work of upper structures on bridges or highways:	 1.1. Students are able to mention the preparation stages for the implementation of the bridge's upper structure (installation of girder supports, installation of bearings, and refinement of the tread plates. 2.2. Students are able to identify construction K3 personnel and tools that are prepared for construction implementation. 	Criteria: The maximum score is obtained if you do all the questions correctly Forms of Assessment : Participatory Activities, Portfolio Assessment, Practice / Performance	1. Discussion2. Lecture3. Tasks, or4. Field visits 2 X 50		0%

No	Evaluation	Percentage	
1.	Participatory Activities	50%	
2.	Test	50%	
		100%	

Notes

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- 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.
- 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.

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