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Universitas Negeri Surabaya Faculty of Engineering Civil Engineering Undergraduate Study Program

Document Code

			S	EMESTE	R LE	ARNIN	IG F	PLA	N				
Courses		CODE	CODE 2220102012		Course Family		Credit Weight			IESTER	Compilation Date		
Engineer	Engineering Economics					T=2	P=0	ECTS=3.1	в	7	July 18, 2024		
AUTHORIZATION			SP De	SP Developer			Course Cluster Coordinator				Study Program Coordinator		
										Yog	ie Risdia	nto, S.T., M.T.	
Learning model	I	Case Studies											
Program		PLO study p	rogram tha	t is charged to	the cour	se							
Learning Outcom		Program Obj	ectives (P	D)									
(PLO)		PLO-PO Mat	rix										
		P.O											
		PO Matrix at the end of each learning stage (Sub-PO)											
			P.O	P.O Week									
				1 2 3 4	5	6 7 8	9	10	11 12	13	14	15 16	
Short Course Descript	tion	aspects of pro time value of profitability ind	ject investm money, se ex (PI), paył	concepts of tech ent, which consis lection of econor back period (PP), Ig direct and coop	ts of bas mic alterr break eve	ic concepts natives, net en point (BE	of tech prese P), ber	nnical nt val nefit co	economics, ue (NPV), ost ratio (B/0	interes internal 2), sens	t and into rate of itivity an	erest formulas return (IRR),	
Referen	ces	Main :											
		 Giatma Soeha Rahar Kuswa Poerb 	an M. 2011. Irto Iman. 20 jo Ferianto. 3 andi. 2007. <i>A</i> o Hartono. 1	n. 2009. Ekonomi Ekonomi Teknik . 01. Manajemen F 2007. Ekonomi Te nalisis Keekonom 993. Tekno Ekonoment in Engineer	Jakarta: Proyek dai eknik (Ana nian Proye omi Bang	Rajagrafind ri Konseptua alisis Penga ek . Yogyak unan Bertin	o Persa al Samp mbilan arta: Ar	ada. bai Op Keput ndi.	usan). Yogy	akarta:	Andi.	'langga.	
		Supporters:											
Support lecturer	ing	Ir. Mas Suryan	to H.S., S.T.	, M.T.									
Week-		al abilities of h learning ge		Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]			ma	Learning materials [References	Assessment Weight (%)		
		Ъ-РО)	Indicato	r Criteria & I	Form	Offline(offline)	C	nline	(online)	Kelt]		

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1	Understand the basic concepts of technical economics in project investment analysis	Can mention and explain decision- making steps in project investment analysis	Criteria: Perfect score if answered correctly	Lectures, discussions and questions and answers 2 X 50		0%
2	Understand the components of production costs	Can mention the components of production costs	Criteria: Perfect score if answered correctly	Lectures, discussions and questions and answers 2 X 50		0%
3	Understand the meaning and calculation of interest	Can calculate simple, compound, nominal and effective interest	Criteria: Perfect score if answered correctly	Lecture, practice questions 2 X 50		0%
4	Drawing investment cash flow	Can draw investment cash flow diagrams	Criteria: Perfect score if answered correctly	Lecture, practice questions 2 X 50		0%
5	Carrying out the equivalent of the value of money against time	Can carry out the equivalent of the value of money against time	Criteria: Perfect score if answered correctly	Lecture, practice questions 2 X 50		0%
6	Carrying out the equivalent of the value of money against time	Can carry out the equivalent of the value of money against time	Criteria: Perfect score if answered correctly	Lecture, practice questions 2 X 50		0%
7	Carrying out the equivalent of the value of money against time	Can carry out the equivalent of the value of money against time	Criteria: Perfect score if answered correctly	Lecture, practice questions 2 X 50		0%
8	UTS	-	Criteria:	- 2 X 50		0%
9	Perform depreciation calculations for investment analysis	Can perform depreciation calculations for investment analysis	Criteria: Perfect score if answered correctly	Lecture, practice questions 2 X 50		0%
10	Perform depreciation calculations for investment analysis	Can perform depreciation calculations for investment analysis	Criteria: Perfect score if answered correctly	Lecture, practice questions 2 X 50		0%
11	Calculate the economic feasibility analysis of project investment	Can calculate the economic feasibility of project investment using various methods	Criteria: Perfect score if answered correctly	Lecture, practice questions 2 X 50		0%
12	Calculate the economic feasibility analysis of project investment	Can calculate the economic feasibility of project investment using various methods	Criteria: Perfect score if answered correctly	Lecture, practice questions 2 X 50		0%

13	Understand the economic feasibility analysis of investment in building projects, roads and bridges, and water structures	Can present the results of an analysis of the economic feasibility of investing in building projects, roads and bridges, and water structures	Criteria: Perfect score if answered correctly	Presentation, group discussion 2 X 50		0%
14	Understand the economic feasibility analysis of investment in building projects, roads and bridges, and water structures	Can present the results of an analysis of the economic feasibility of investing in building projects, roads and bridges, and water structures	Criteria: Perfect score if answered correctly	Presentation, group discussion 2 X 50		0%
15	Understand the economic feasibility analysis of investment in building projects, roads and bridges, and water structures	Can present the results of an analysis of the economic feasibility of investing in building projects, roads and bridges, and water structures	Criteria: Perfect score if answered correctly	Presentation, group discussion 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.