

	Universitas Negeri Surabaya Faculty of Engineering, Building Engineering Education Undergraduate Study Program					Document Code	
SEMESTER LEARNING PLAN							
Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
MPK-COST ANALYSIS	8320502315		T=2	P=0	ECTS=3.18	6	July 18, 2024
AUTHORIZATION		SP Developer	Course Cluster Coordinator			Study Program Coordinator	
		Heri Suryaman, S.Pd., M.Pd.			Dr. Gde Agus Yudha Prawira Adistana, S.T., M.T.	
Learning model	Project Based Learning						
Program Learning Outcomes (PLO)	PLO study program that is charged to the course						
	Program Objectives (PO)						
	PLO-PO Matrix						
		<div style="border: 1px solid black; padding: 5px; display: inline-block;">P.O</div>					
Short Course Description	This course contains the basic concepts of project cost budget plans, calculation of cost plans for civil, architectural, mechanical and electrical works accompanied by calculations of material requirements. At the end, this course will provide an overview of calculating budget plans for state buildings, budget plans for planning work, construction management and supervision. Learning is carried out using direct teaching methods with a constructivist approach						
References	Main :						
	<ol style="list-style-type: none"> 1. Nugraha Paulus, Natan Ishak, Sutjipto R. 1985. Manajemen Proyek Konstruksi 1. Surabaya:Kartika Yudha 2. Soeharto Iman. 2001. Manajemen Proyek dari Konseptual Sampai Operasional Jilid 2. Jakarta: Erlangga 3. Ibrahim Baktiar. 2001. Rencana dan Estimate Real of Cost. Jakarta: Bumi Aksara 4. Badan Standarisasi Nasional. 2008. Tata Cara Perhitungan Harga Satuan Pekerjaan. Jakarta: Badan Standarisasi Nasional 5. Pemerintah Kota Surabaya. 2014. Harga Satuan Pokok Kegiatan (HSPK) Kota Surabaya. Surabaya: Pemkot Surabaya 6. Kementerian Pekerjaan Umum. 2012. Analisa Harga Satuan Pekerjaan (AHSP) Bidang Pekerjaan Umum. Jakarta: Kementerian Pekerjaan Umum 7. Kementerian Pekerjaan Umum. 2007. Permen PU No. 45/PRT/M/2007tentang Pedoman Teknis Pembangunan Bangunan Gedung Negara 						
	Supporters:						
Supporting lecturer	Dr. Gde Agus Yudha Prawira Adistana, S.T., M.T. Heri Suryaman, S.Pd., M.Pd.						

Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)
		Indicator	Criteria & Form	Offline (offline)	Online (online)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Understand the basic concepts of cost budget planning	Can state the meaning, types, components and methods of calculating cost budget plans	Form of Assessment : Participatory Activities, Practice/Performance	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		0%
2	Understand the basic concepts of cost budget planning	Can state the meaning, types, components and methods of calculating cost budget plans	Form of Assessment : Participatory Activities	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		0%
3	Understand how to calculate the budget plan for preparatory work, land and foundations and material requirements	Can calculate the budget plan for the costs of preparatory work, land, foundations and material requirements	Form of Assessment : Participatory Activities, Project Results Assessment / Product Assessment	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		0%
4	Understand how to calculate the budget plan for preparatory work, land and foundations and material requirements	Can calculate the budget plan for the costs of preparatory work, land, foundations and material requirements	Form of Assessment : Participatory Activities, Practice/Performance	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		10%
5	Understand how to calculate the budget plan for reinforced concrete work and how to calculate material requirements	Can calculate the budget plan for reinforced concrete work and material requirements	Form of Assessment : Participatory Activities, Practice/Performance	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		0%
6	Understand how to calculate the budget plan for reinforced concrete work and how to calculate material requirements	Can calculate the budget plan for reinforced concrete work and material requirements	Form of Assessment : Participatory Activities, Practice/Performance	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		0%
7	Understand how to calculate the budget plan for reinforced concrete work and how to calculate material requirements	Can calculate the budget plan for reinforced concrete work and material requirements	Form of Assessment : Participatory Activities, Practice/Performance	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		0%
8	Understand how to calculate the budget plan for reinforced concrete work and how to calculate material requirements	Can calculate the budget plan for reinforced concrete work and material requirements	Form of Assessment : Participatory Activities, Practice/Performance	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		30%
9	UTS	UTS	Form of Assessment : Participatory Activities, Practice/Performance	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		0%

10	Understand how to calculate the budget plan for finishing work costs and material requirements	Can calculate the budget plan for finishing work costs and material requirements	Form of Assessment : Participatory Activities, Portfolio Assessment	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		0%
11	Understand how to calculate the budget plan for finishing work costs and material requirements	Can calculate the budget plan for finishing work costs and material requirements	Form of Assessment : Participatory Activities, Portfolio Assessment	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		0%
12	Understand how to calculate the budget plan for finishing work costs and material requirements	Can calculate the budget plan for finishing work costs and material requirements	Form of Assessment : Participatory Activities, Portfolio Assessment	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		0%
13	Understand how to calculate the budget plan for steel construction work and material requirements	Can calculate the budget plan for steel construction work costs and material requirements	Form of Assessment : Participatory Activities, Portfolio Assessment	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		0%
14	Understand how to calculate the budget plan for electrical and sanitary installation work and material requirements	Can calculate the budget plan for electrical and sanitary installation work costs and material requirements	Form of Assessment : Participatory Activities, Portfolio Assessment	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		20%
15	Understand how to calculate the budget plan for the construction of state buildings,	Can calculate the budget plan for the construction costs of state buildings	Form of Assessment : Participatory Activities, Portfolio Assessment	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		0%
16	Understand how to calculate the budget plan for the construction of state buildings,	Can calculate the budget plan for the construction costs of state buildings	Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Portfolio Assessment, Practice / Performance	Case studies and field practice 2 x 50	Case studies and field practice 2 x 50		40%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	40%
2.	Project Results Assessment / Product Assessment	10%
3.	Portfolio Assessment	20%
4.	Practice / Performance	30%
		100%

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.
- 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.
- 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.
- 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.