



**Universitas Negeri Surabaya
Faculty of Engineering
Civil Engineering Undergraduate Study Program**

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight	SEMESTER	Compilation Date
Budget plan	2220102100		T=2 P=0 ECTS=3.18	5	July 18, 2024
AUTHORIZATION	SP Developer		Course Cluster Coordinator	Study Program Coordinator	
	Yogie Risdianto, S.T., M.T.	
Learning model	Case Studies				
Program Learning Outcomes (PLO)	PLO study program that is charged to the course				
	Program Objectives (PO)				
	PLO-PO Matrix				
		P.O			
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	<p>Main :</p> <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/2007 tentang Pedoman Teknis Pembangunan Bangunan Gedung Negara. Jakarta: Kementerian Pekerjaan Umum. 8. Ikatan Nasional Konsultan Indonesia. 2013. Pedoman Standar Minimal 2013 Biaya Langsung Personil dan Biaya Langsung Non Personil untuk Kegiatan Jasa Konsultansi. Jakarta: Inkindo. 9. Journal of Cost Analysis and Parametrics. <p>Supporters:</p>			
Supporting lecturer	Ir. Mas Suryanto H.S., S.T., M.T.				

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	Students can state the meaning, types, components and methods for calculating budget plans	Criteria: Essay 100%	Lectures, discussions and questions and answers 4 X 50			0%
2							0%
3	Understand how to calculate the budget plan for preparatory work, land and foundations and material requirements	Students can calculate the budget plan for the costs of preparatory work, land, foundations and material requirements	Criteria: Able to complete assignments according to assignment sheet requests 100%	Lecture, practice questions 4 X 50			0%
4							0%
5	Understand how to calculate the budget plan for reinforced concrete work and how to calculate material requirements	Students can calculate the budget plan for reinforced concrete work and material requirements	Criteria: Able to complete assignments according to assignment sheet requests 100%	Lecture, practice questions 8 X 50			0%
6							0%
7							0%
8							0%
9	Meeting 01 - 08	Meeting 01 - 08	Criteria: Essay 100%	Sub Summative Exam 2 X 50			0%
10	Understand how to calculate the budget plan for finishing work costs and material requirements	Students can calculate the budget plan for finishing work costs and material requirements	Criteria: Able to complete assignments according to assignment sheet requests 100%	Lecture, practice questions 6 X 50			0%
11							0%
12							0%
13	Understand how to calculate the budget plan for steel construction work and material requirements	Students can calculate the budget plan for steel construction work costs and material requirements	Criteria: Able to complete assignments according to assignment sheet requests 100%	Lecture, practice questions 2 X 50			0%
14	Understand how to calculate the budget plan for electrical and sanitary installation work and material requirements	Students can calculate the budget plan for electrical and sanitary installation work costs and material requirements	Criteria: Able to complete assignments according to assignment sheet requests 100%	Lecture, practice questions 2 X 50			0%

15	Understand how to calculate the budget plan for the construction of state buildings	Students can calculate the budget plan for the construction costs of state buildings	Criteria: Able to complete assignments according to assignment sheet requests 100%	Lectures, questions and answers, practice questions 2 X 50			0%
16	Understand how to calculate budget plans for planning work costs, construction management and supervision	Students can calculate budget plans for planning work costs, construction management and supervision	Criteria: Able to complete assignments according to assignment sheet requests 100%	Lecture, practice questions 2 X 50			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.**