

		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																																	
Planning Const Ma'am		2220102066		T=2	P=0	ECTS=3.18	8	July 18, 2024																																	
AUTHORIZATION		SP Developer		Course Cluster Coordinator			Study Program Coordinator																																		
				Yogie Risdianto, 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																																								
	<table border="1" style="margin: auto;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">P.O</td> <td colspan="16"></td> </tr> </table>									P.O																															
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Short Course Description	PO Matrix at the end of each learning stage (Sub-PO)																																								
	<table border="1" style="margin: auto;"> <tr> <td rowspan="2" style="width: 10%;"></td> <td rowspan="2" style="width: 10%;"></td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td style="width: 5%; text-align: center;">1</td> <td style="width: 5%; text-align: center;">2</td> <td style="width: 5%; text-align: center;">3</td> <td style="width: 5%; text-align: center;">4</td> <td style="width: 5%; text-align: center;">5</td> <td style="width: 5%; text-align: center;">6</td> <td style="width: 5%; text-align: center;">7</td> <td style="width: 5%; text-align: center;">8</td> <td style="width: 5%; text-align: center;">9</td> <td style="width: 5%; text-align: center;">10</td> <td style="width: 5%; text-align: center;">11</td> <td style="width: 5%; text-align: center;">12</td> <td style="width: 5%; text-align: center;">13</td> <td style="width: 5%; text-align: center;">14</td> <td style="width: 5%; text-align: center;">15</td> <td style="width: 5%; text-align: center;">16</td> </tr> </table>										Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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Short Course Description	The task of drawing complete three-story public building construction plans, including Architectural Plan Drawings, Cutting Drawings, View Drawings and Architectural Details as well as Structural Plan Drawings, Portal Cutting Drawings and Structural Details. Task completion format using AutoCAD software. The resulting planning drawings can be used as working drawing data for three-story public buildings in the Concrete Planning and Cost Budget Planning courses.																																								
References	Main :																																								
	<ol style="list-style-type: none"> 1. Frederick E. Giesecke, Alva Mitcheel, etc., 2008. Technical Drawing. Pearson. USA. 2. Affandi, Achmad Irfan. 2000. Buku Ajar: Menggambar Teknik. Surabaya. Unesa Press. 3. Cahyaka, Hendra Wahyu.. 2000. Buku Ajar: Gambar Teknik. Surabaya. Unesa Press. 4. S.C. Sharma. 1979. Engineering Drawing Part I. New York: Chand-Company Ltd., Ram Nagar. 5. Khrisbianto, Andi. 2009. AutoCAD 2010 To The Point. Jakarta: Elex Media Komputindo. 																																								
	Supporters:																																								
Supporting lecturer	Krisna Dwi Handayani, S.T., M.MT., M.T. Arik Triarso, S.Pd., 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	Able to draw plans	Identifying drawing notations Explaining drawing notations Applying floor plans		Lectures, discussions and questions and answers and practice drawing 2 X 50			0%
2	Able to draw plans	Identifying drawing notations Explaining drawing notations Applying floor plans		Lectures, discussions and questions and answers and practice drawing 2 X 50			0%
3	Able to draw foundations and sloof columns	Identifying foundation drawing notations. Explaining the function and depiction of foundation drawings. Applying foundation drawings		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%
4	Able to draw 2nd floor column beams and 3rd floor ring beams	Identifying notations for drawings of 2nd floor column beams and 3rd floor ring beams. Explaining the function and depiction of 2nd floor column beams and 3rd floor ring beams. Applying drawings of 2nd floor column beams and 3rd floor ring beams.		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%

5	Able to draw 2nd floor column beams and 3rd floor ring beams	Identifying notations for drawings of 2nd floor column beams and 3rd floor ring beams. Explaining the function and depiction of 2nd floor column beams and 3rd floor ring beams. Applying drawings of 2nd floor column beams and 3rd floor ring beams.		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%
6	Able to draw roof plans	Identifying roof plan drawing notations. Explaining the function and depiction of roof plans. Applying roof plan drawings		Lectures, discussions and questions and answers and drawing practice. Exercise 2 X 50			0%
7	Able to draw roof plans	Identifying roof plan drawing notations. Explaining the function and depiction of roof plans. Applying roof plan drawings		Lectures, discussions and questions and answers and drawing practice. Exercise 2 X 50			0%
8	UTS			2 X 50			0%
9	Able to draw pieces	Identifying notation for cut drawings Explaining the function and depiction of cuts Applying cut drawings		Lectures, discussions and questions and answers and drawing practice. Exercise 2 X 50			0%
10	Able to draw pieces	Identifying notation for cut drawings Explaining the function and depiction of cuts Applying cut drawings		Lectures, discussions and questions and answers and drawing practice. Exercise 2 X 50			0%

11	Able to draw looks	Identify visible image notation Explain visible function and depiction Apply visible image		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%
12	Able to draw looks	Identify visible image notation Explain visible function and depiction Apply visible image		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%
13	Able to draw floor plates	Identifying floor plate drawing notations. Explaining the function and depiction of floor plates. Applying floor plate drawings		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%
14	Able to draw portals	Identifying portal image notations Explaining the function and depiction of portals Applying portal images		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%
15	Able to draw detailed stairs (structural and architectural drawings)	Identifying notations for ladder drawings Explaining the function and depiction of stairs Applying ladder drawings		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%
16							0%

Evaluation Percentage Recap: Project Based Learning

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.