

		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																																
Drawing Bang Structure II		8320502135			T=2	P=0	ECTS=3.18	4 July 18, 2024																																
AUTHORIZATION		SP Developer		Course Cluster Coordinator		Study Program Coordinator																																		
			Dr. Gde Agus Yudha Prawira Adistana, 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																																							
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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: 50px; height: 30px;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td style="width: 20px; height: 20px; text-align: center;">1</td> <td style="width: 20px; height: 20px; text-align: center;">2</td> <td style="width: 20px; height: 20px; text-align: center;">3</td> <td style="width: 20px; height: 20px; text-align: center;">4</td> <td style="width: 20px; height: 20px; text-align: center;">5</td> <td style="width: 20px; height: 20px; text-align: center;">6</td> <td style="width: 20px; height: 20px; text-align: center;">7</td> <td style="width: 20px; height: 20px; text-align: center;">8</td> <td style="width: 20px; height: 20px; text-align: center;">9</td> <td style="width: 20px; height: 20px; text-align: center;">10</td> <td style="width: 20px; height: 20px; text-align: center;">11</td> <td style="width: 20px; height: 20px; text-align: center;">12</td> <td style="width: 20px; height: 20px; text-align: center;">13</td> <td style="width: 20px; height: 20px; text-align: center;">14</td> <td style="width: 20px; height: 20px; text-align: center;">15</td> <td style="width: 20px; height: 20px; text-align: center;">16</td> </tr> </table>								P.O	Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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References	Main : <ol style="list-style-type: none"> 1. Irfan A. Buku Ajar Menggambar Teknik. Surabaya: Unesa Press. 2. Frederick E Giesecke. Technical Drawinf. Pearson Internasional Edition 3. Soemadi R. Konstruksi Bangunan Gedung. 4. Soegihardjo R. Gambar-gambar Dasar Ilmu Bangunan. 5. Seelye E. 1959. Design, Data Book for Civil Engineers. New York: John Willey & Sons. 6. Irfan A. 2004. Menggambar Struktur Bangunan I. Surabaya: JTS FT Unesa. 																																							
	Supporters:																																							
Supporting lecturer	Hendra Wahyu Cahyaka, S.T., M.T. Mochamad Firmansyah Sofianto, S.T., M.Sc., 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	<ol style="list-style-type: none"> 1. Identify image notations 2. Explain image notation 3. Apply floor plan images 		Lectures, discussions and questions and answers and practice drawing 2 X 50			0%
2	Able to draw plans	<ol style="list-style-type: none"> 1. Identify image notations 2. Explain image notation 3. Apply floor plan images 		Lectures, discussions and questions and answers and practice drawing 2 X 50			0%
3	Able to draw foundations and sloof columns	<ol style="list-style-type: none"> 1. Identify foundation drawing notations 2. Explain the function and depiction of foundation drawings 3. 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	<ol style="list-style-type: none"> 1. Identify the drawing notations for 2nd floor column beams and 3rd floor ring beams 2. Explain the function and depiction of 2nd floor column beams and 3rd floor ring beams 3. Apply the image of the 2nd floor column beam and the 3rd floor ring beam 		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%

5	Able to draw roof plans	<ol style="list-style-type: none"> 1. Identify roof plan drawing notations 2. Explain the function and depiction of roof plans 3. Apply the roof plan drawing 		Lectures, discussions and questions and answers and drawing practice, Exercise 2 X 50			0%
6	Able to draw roof plans	<ol style="list-style-type: none"> 1. Identify roof plan drawing notations 2. Explain the function and depiction of roof plans 3. Apply the roof plan drawing 		Lectures, discussions and questions and answers and drawing practice. Exercise 2 X 50			0%
7	UTS	UTS	Criteria: 100 marks, if the answer is correct, according to the plan	Test 2 X 50			0%
8	Able to draw pieces	<ol style="list-style-type: none"> 1. Identify cut drawing notations 2. Explain the function and depiction of pieces 3. Apply cutout images 		Lectures, discussions and questions and answers and drawing practice. Exercise 2 X 50			0%
9	Able to draw pieces	<ol style="list-style-type: none"> 1. Identify cut drawing notations 2. Explain the function and depiction of pieces 3. Apply cutout images 		Lectures, discussions and questions and answers and drawing practice. Exercise 2 X 50			0%
10	Able to draw looks	<ol style="list-style-type: none"> 1. Identify visible image notation 2. Explain the function and visual depiction 3. Apply visible images 		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%

11	Able to draw looks	<ol style="list-style-type: none"> 1. Identify visible image notation 2. Explain the function and visual depiction 3. Apply visible images 		Lectures, discussions and questions and answers and practice drawing 2 X 50			0%
12	Able to draw floor plates	<ol style="list-style-type: none"> 1. Identify floor plate drawing notations 2. Explain the function and depiction of floor plates 3. Apply the floor plate image 		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%
13	Able to draw portals	<ol style="list-style-type: none"> 1. Identify portal image notations 2. Explain the function and depiction of the portal 3. Applying the portal image 		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%
14	Able to draw detailed stairs (structural and architectural drawings)	<ol style="list-style-type: none"> 1. Identifying notations for ladder drawings 2. Explain the function and depiction of stairs 3. Apply the stairs image 		Lectures, discussions and questions and answers and drawing practice. 2 X 50			0%
15	Able to draw clean and dirty water installation plans and electrical installations	Identify drawing notations for water and electricity installations	Criteria: 100 marks, if the answer is correct	Lectures, discussions and questions and answers and drawing practice. 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.