

## Universitas Negeri Surabaya Faculty of Engineering, Building Engineering Education Undergraduate Study Program

Document Code

	UNESA												
			;	SEME	STER L	_EA	RNII	NG F	PLA	N			
Courses			C	CODE Course Fami		se Famil	Credit Weight			ght	SEMESTER	Compilation Date	
Building Structure II			8	3320503217	,				T=3 P=0 ECTS=4.77		2	July 18, 2024	
AUTH	HORIZATION	I	S	SP Develop	er			Course	e Clus	ter Co	ordinator	Study Prog	ram
												Dr. Gde Agus Yudha Prawira Adistana, S.T., M.T.	
Learr	ning model	Case Studies											
Prog Lear		PLO study prog	gram tha	at is char	ged to the co	urse							
	omes	Program Objec	tives (P	(0)									
(PLO	')	PLO-PO Matrix	I										
				P.O									
		PO Matrix at the end of each learning stage (Sub-PO)											
			P.O	.O Week									
				1 2	3 4	5	6 7	8	9	10	11 12	13 14	15 16
Short Course Description		This course provi formwork, gutter the form of worki expository approx equipped with the Learning Outcom	construct ing drawi ach in the e use of a	tion, bathro ings (graph e form of le	oms, septic tai iics) are a ver ctures and qu	nks, sai y impo estions	nitation a rtant sup and ans	and parti porting wers fo	ition w eleme Ilowed	alls. St ent in tl by dis	udents' abil nis course. cussion and	ities/skills in a Lectures are I reflection act	oplying theory in held through an ivities which are
Refe	rences	Main :											
		Benny Puspantoro.1996. Konstruksi Bangunan Gedung Bertingkat Rendah . Yogyakarta: Universitas Atma Jaya     Tamrin A. 2008. Teknik Konstruksi Bangunan Gedung . Jakarta: Depdiknas     Dian Ariestadi. 2008. Teknik Struktur Bangunan . Jakarta: Depdiknas     Suparno. 2008. Teknik Gambar Bangunan . Jakarta: Depdiknas											
		Supporters:											
Supp lectu	orting irer	SUDIJONO Hendra Wahyu C	ahyaka,	S.T., M.T.									
Week-	Final abilities of each			Evaluation			Help Learn Learning met Student Assign [ Estimated		nethod ignme	nts,	Learning materials [ References	Assessment Weight (%)	
	(Sub-PO)	ub-1 0)		licator	Criteria & F	-orm		Offline ( Online ( online ) offline )		]			
(1)		(2)		(3)	(4)		(5	5)		(6	6)	(7)	(8)
forms of stairs able the		able to the va	nts are o describe irious of stairs			Lecture Question Answer Discuss	n and					0%	

3 X 50

2	Understand the parts and	1.Students are	Lecture		0%
	arrangement of stairs. Understand the requirements for stairs	able to: Describe the parts of a ladder 2.Describe the arrangement of the stairs 3.Explain the requirements for stairs	Question and Answer Discussion 3 X 50		
3	Understand the various types of stairs (steel concrete, wood and stone) Apply the theory of stairs (steel concrete, wood and stone) to the picture	1.Students are able to: Explain various types of stairs (concrete, steel, wood and stone) 2.Drawing of stairs (concrete, steel, wood and stone)	Lecture Question and Answer Discussion 3 X 50 Drawing Workshop		0%
4	Understand the various roof shapes	Students are able to explain the various shapes of roofs	Lecture Question and Answer Discussion 3 X 50		0%
5	Understand matters related to roof frame construction	Students are able to explain things related to roof frame construction	Lecture Question and answer Discuss 3 X 50		0%
6	Understanding things related to steel and galvalume concrete wooden trusses Applying the theory of steel and galvalum concrete wooden trusses to drawings	1.Students are able to: Explain things related to wooden horses 2.Explain things related to concrete trusses 3.Explain things related to steel horses 4.Explain things related to steel horses 5.Drawing of steel and galvalum concrete wooden easels	Lecture Question and Answer Discussion 3 X 50 Drawing Workshop		0%
7	Applying theory to find the actual length of the spokes Applying theory to find the actual length of the spokes in the picture Knowing the types of roof covering materials	1.Students are able to: Calculate the actual length of the foreleg based on certain prerequisites 2.Drawing of jurai 3.Identify the types of roof covering materials	Lectures, Questions and Answers, Discussions, 3 X 50 Drawing Workshop		0%

8	Understanding the meaning of formworkUnderstanding formwork requirementsKnowing formwork materialsUnderstanding things related to beam, column and plate formworkApplying beam, column and plate formwork in the drawing	1.Students are able to: Define the meaning of formwork 2.Explain formwork requirements 3.Identify formwork materials 4.Explain matters related to beam, column and plate formwork 5.Drawing formwork for beams, columns and plates		Lectures, Questions and Answers, Discussions, 3 X 50 Drawing Workshop		0%
9	UTS	UTS	Criteria: Get a score of 100 if you answer all the questions correctly	3 X 50 test		0%
10	Know the materials for making water gutters. Understand the requirements for water gutters	1.Students are able to: Identify materials for making water gutters 2.Explain the requirements for gutters		Lecture, Question and Answer, Discussion 3 X 50		0%
11	Understand the various forms of gutter construction. Apply the various forms of gutter construction in the picture	1.Students are able to: Explain the various forms of gutter construction 2.Draw various forms of gutter construction		Lectures, Questions and Answers, Discussions, 3 X 50 Drawing Workshop		0%
12	Understanding bathroom construction requirementsUnderstanding the types of bathroomsDry bathroomsWet DathroomsWet Dathrooms Applying the theory of various types of bathrooms to the picture	1.Students are able to: Explain the requirements for bathroom construction 2.Explain the types of bathrooms 3.Dry bathroom 4.Wet bathroom 5.Wet Dry Bathroom 6.Drawing of dry, wet and wet dry bathrooms		Lectures, Questions and Answers, Discussions, 3 X 50 Drawing Workshop		0%
13	Understanding the meaning of a septic tank. Understanding the requirements for a septic tank	1.Students are able to: Understand the meaning of septic tank 2.Explain bathroom construction requirements		Understanding septic tanks. Requirements for 3 X 50 septic tanks		0%

14	Knowing the materials for making septic tanks Understanding things related to control tanks Applying knowledge about materials for making septic tanks and control tanks in the picture	1.Students are able to: Identify the materials for making septic tanks 2.Explain matters related to tub control 3.Draw the materials for making a septic tank and control tank in the picture		Lecture, Question and Answer, Discussion 3 X 50		0%
15		_	_			0%
16						0%

**Evaluation Percentage Recap: Case Study** 

No	Evaluation	Percentage	-
		0%	

## 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.
- 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.
- 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.