

Document Code

SEMESTER LEARNING PLAN																				
Courses		CODE					Cou	ırse F	Family		•	Credit Weight		SEME	ESTER	Com	npilation			
Building Utilities		8320502	256				Drs.	. Djon	Irianto	o, MT.		T=2	P=0 E0	CTS=3.18		3		17, 2024		
AUTHOR	IZATIO	N		SP Deve	loper							Co	urse	Clus	ter Coo	rdinator		/ Progra	am	
									Dr. Gde Agus Yudha Prawira Adistana, S.T., M.T.											
Learning model		Case Studies																		
Program		PLO study program that is charged to the course																		
Learning Outcome		Program Objectives (PO)																		
(PLO)		PO - 1 Able to design and master the theory of low-rise building construction which includes stairs, roofs, formwork, gutter construction, bathrooms, septic tanks, sanitation and partition walls in accordance with predetermined quality standards.																		
		PO - 2																		
		PO - 3		evaluate lo inks, sanita										airs, r	oofs, for	mwork, gı	ıtter co	nstructio	n, ba	throoms,
		PLO-PO Matrix																		
	PO Matrix at the end of				rning	y stag	je (Sı	ub-PC))											
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			PO-1	_															\top	
			PO-2	2															\top	
			PO-3	3																
Short Course Description This course provides understanding and mastery of non-storied building construction and low-rise building construction building problems, brick ties, wood connections, doors and windows, foundations, ceilings, floors, stairs, roofs, for problems. gutters, bathrooms, septic tanks, sanitation and partition walls. Students' ability to apply theory in the form (graphics) is a very important supporting element in this course. Lectures are held through an expository approach in the questions and answers followed by discussion and reflection activities equipped with the use of an LCD, and an inquestion partial/structured completion of individual assignments.				ormwork n of wo ne form o	k, con rking of of lect	nstruction drawings tures and														
Reference	ces	Main:																		
2. Benr 3. A. Pi 4. A. Pi 5. Iman		2. Benny P 3. A. Pill. 19 4. A. Pill. 19 5. Imam Su	Puspantoro. 1996. Konstruksi Bangunan Gedung Tidak Bertingkat. Yogyakarta : Universitas Atma Jaya Yogyakarta Puspantoro. 1996. Konstruksi Bangunan Gedung Bertingkat. Yogyakarta : Universitas Atma Jaya Yogyakarta 1983. Ringkasan Ilmu Bangunan bagian a. Jakarta : Erlangga 1983. Ringkasan Ilmu Bangunan bagian b. Jakarta : Erlangga Subarkah. 1980. Konstruksi Bangunan Gedung. Bandung : Idea Dharma bandung dji. Bangunan Umum Jilid A. Buku Teknik H STAM																	
		Supporters:																		
Supporti lecturer	ing	Drs. Djoni Irianto	M.T.																	
Final abilities of Week- each learning stage			Evaluation				Help Learning, Learning methods, Student Assignments, [Estimated time]				mate	rning erials [essment ight (%)						

	(Sub-PO)	Indicator	Criteria & Form	Offline (offline)	Online (online)	1	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Understanding building types, Understanding building parts, Understanding building parts, Understanding building lines	Students are able to: Explain the meaning of building Explain the various types of buildings Explain the various building lines	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment: Participatory Activities	Blended learning, using online applications, MPBM, 2 X 50 Discussion Questions and Answers			5%
2	Understand the meaning of foundations, understand the types of foundations, draw foundation plans	1.Students are able to: Define the meaning of foundation 2.Explain the various types of foundations 3.Draw a foundation plan	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment: Participatory Activities	Blended learning, using online applications, MPBM, questions and answers, and 2 X 50 discussions			5%
3	Understand the meaning of foundations, understand the types of foundations, draw foundation plans	Students are able to: Define the meaning of foundation Explain the various types of foundations Drawing foundation plans	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment: Participatory Activities, Practice/Performance	Blended learning, using online applications, MPBM, questions and answers, and 2 X 50 discussions			5%
4	Understand drawing foundations on building structures	Students are able to sketch foundation drawings according to building shape requirements	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment: Participatory Activities	Blended learning, using online applications, MPBM, questions and answers, and 2 X 50 discussions			4%
5	Understand the placement of beams and columns	Students are able to: Explain the placement of columns Explain the placement of blocks	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment : Participatory Activities	Blended learning, using online applications, MPBM, questions and answers, and 2 X 50 discussions			2%
6	Understand the placement of blocks and columns Understand the shapes of walls Understand the conditions for brick bonding Apply various brick bond theories to drawings	1.Students are able to: Explain the placement of columns 2.Explain the placement of blocks 3.Explain the shapes of walls 4.Explain the requirements for bonding bricks 5.Applying various types of brick bond theories to images	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment: Participatory Activities	Blended learning, using online applications, MPBM, questions and answers, and 2 X 50 discussions			2%
7	Understand determining the placement of beams and columns. Apply various brick bond theories to drawings	Students are able to: Determine the placement of columns Determine the placement of blocks Applying various types of brick bond theories to images	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment: Participatory Activities	Blended learning, using online applications, MPBM, questions and answers, and 2 X 50 discussions			2%
8	UTS	UTS	Criteria: UTS Form of Assessment : Test	UTS 2 X 50			20%

9	Understand the	Students are able to	Criteria:	Blended	1	5%
3	various forms of stairs	describe the various forms of stairs	Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment: Participatory Activities	learning, using online applications, MPBM, questions and answers, and 2 X 50 discussions		5 70
10	Understand the various forms of stairs	Students are able to describe the various forms of stairs	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment: Participatory Activities	Blended learning, using online applications, MPBM, questions and answers, and 2 X 50 discussions		5%
11	Understanding things related to arches above door or window frames Applying various types of arches above door or window frames in the drawing Understanding the requirements for wood connections	1.Students are able to explain the requirements for wood connections 2.Describe things related to arches above door or window frames 3.Draw an arc over a door or window frame	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment: Participatory Activities	Blended learning, using online applications, MPBM, questions and answers, and 2 X 50 discussions		5%
12	Understand the various types of doors and windows. Apply the various types of doors and windows in the picture. Understand the requirements for wood connections	1.Students are able to: Explain the various types of doors and windows 2.Draw various doors and windows 3.Understand the requirements for wood joints	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment: Participatory Activities	Blended learning, using online applications, MPBM, 2 X 50 Discussion Questions and Answers		5%
13	Understand matters related to roof frame construction and roof shape	Students are able to explain things related to roof frame construction	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment: Participatory Activities	Blended learning, using online applications, MPBM, questions and answers, and 2 X 50 discussions		5%
14	Understand things related to wooden, concrete, steel and galvalum trusses	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 galvalum trusses 5.Drawing of steel and galvalume concrete wooden easels	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment: Participatory Activities	Blended learning, using online applications, MPBM, questions and answers, and 2 X 50 discussions		5%
15	Understanding the meaning of the ceiling Understanding the function of the ceiling Knowing the types of ceiling covering materials Understanding the ceiling frame Applying the ceiling frame to the picture Knowing the various types of floor coverings/accessories Understanding the floor installation pattern Understanding things related to the floor structure Applying the installation pattern and the floor structure in the picture	1.Students are able to: Explain the meaning of ceiling 2.Explain the function of the ceiling 3.Identify the types of ceiling covering materials 4.Explains the ceiling frame 5.Drawing of the ceiling frame 6.Identify various types of floor coverings/accessories 7.Understand floor installation patterns 8.Explain things related to floor structures 9.Drawing installation patterns and floor structures	Criteria: Full marks are given if you can complete the assignment correctly within the specified time Form of Assessment : Participatory Activities	Blended learning, using online applications, MPBM, questions and answers, and 2 X 50 discussions		5%

16			Test	Test	20%
		Form of Assessment : Test			
		. 661			

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	57.5%
2.	Practice / Performance	2.5%
3.	Test	40%
	_	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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Learning materials are details or descriptions of study materials which can be presented in the form of several main points and subtopics.
- 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.