MODUL HANDBOOK

CONSTRUCTIVE DRAWING

Bachelor Degree Program

Department of Interior Design

Faculty of Creative Design and Digital Business

Institut Teknologi Sepuluh Nopember

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Description of Course Unit

Course unit title	Constructive Drawing
Course unit code	DI84205
Type of course unit (compulsory, optional)	compulsory
Level of course unit (according to EQF: first cycle Bachelor, second cycle Master)	first cycle Bachelor
Year of study when the course unit is delivered (if applicable)	1st year
Semester/trimester when the course unit is delivered	2nd Semester
Number of ECTS credits allocated	4,8 ECTS credits
Name of lecturer(s)	Caesario Ari Budianto, S.T,, M.T. Okta Putra Setio Ardianto, S.T., M.T.
Learning outcomes of the course unit	1. Able to working together in creating interior and building engineering drawing 2. Able to communicate their own engineering drawing. 3. Able to master computers for interior drawing.
Mode of delivery (face-to-face, distance learning)	face-to-face
Prerequisites and co-requisites (if applicable)	-
Course content	1. Introduction of Construction Drawing subject and the relationship with other subject 2. Building engineering 3. Construction engineering drawing standard 4. Interior construction drawings
Recommended or required reading and other learning resources/tools	1. Tamrin A.G. (2008). Teknik Konstruksi Bangunan Gedung. Direktorat Pembinaan Sekolah Menengah Kejuruan. Jakarta 2. Putro. Haryono (-). Konstruksi Bangunan. Universitas Gunadarma 3. 3. – (2006). Pedoman Teknis Bangunan Tahan Gempa. Direktorat Jenderal Cipta Karya 4. Herman Hanstein (2018), Constructive Drawing : A Text-Book for Home Instruction, High Schools, Manual Training Schools, Technical Schools and Universities 5. Richard B. (2004), Building Construction Drawing: A Class-book 6. Philip W. Metzger (2007), The Art of Perspective: The Ultimate Guide for Artists in Every Medium 7. Mattew T. Bhrem (2016), Drawing Perspective: How to See It and How to Apply It 8. W. E. Sparkes (2007), Lessons on Shading

	9. Gilles Beloeil, Roberto F. Castro, Andrei Riabovitchev, (2013), Art Fundamentals: Color, Light, Composition, Anatomy, Perspective, and Depth 10. Giovanni Chivardi, (2006) Drawing Light & Shade: Understanding Chiarascuro
Planned learning activities and teaching methods	Project-Based Learning
Language of instruction	Indonesia and English
Assessment methods and criteria	Presentations, assignments, discussions, quizzes, laboratory practices

Learning Outcome (LO)

LO	Description
LO3	Able to make alternatives, development, and interior design details (implementation of concepts)
LO8	Mastering practical design knowledge about Geometry, building, communication (drawing), methodologies and consequences in the field of interior design
LO11	Responsible independently and as a team/ organization

Course Learning Outcome (CLO)

CLO	Description	Mapping of CLO to LO			Weight of CLO (%)
		LO3	LO8	LO11	
CLO1	Students are able to understand the principles and aesthetics of spatial visualization images manually		x	x	20
CLO2	Students are able to understand the concept of coloring in spatial visualization images manually		x	x	20
CLO3	Students are able to analyze and present a spatial visualization of private space	x	x		30
CLO4	Students are able to analyze and present a spatial visualization of medium to large scale public spaces	x	x		30

Asessment Plan

No.	Course Learning Outcomes*	Asessment Technique	Asessment Weight (%)
1	**CLO1** Students are able to understand the principles and aesthetics of spatial visualization images manually **CLO3** Students are able to analyze and present a spatial visualization of private space	Small Space Drawing Tasks Series (Case Method)	17.5
2	**CLO1** Students are able to understand the principles and aesthetics of spatial visualization images manually **CLO2** Students are able to understand the concept of coloring in spatial visualization images manually **CLO3** Students are able to analyze and present a spatial visualization of private space **CLO4** Students are able to analyze and present a spatial visualization of medium to large scale public spaces	Medium Space Drawing Task Series (Case Method)	22.5
3	**CLO1** Students are able to understand the principles and aesthetics of spatial visualization images manually **CLO2** Students are able to understand the concept of coloring in spatial visualization images manually **CLO3** Students are able to analyze and present a spatial visualization of private space **CLO4** Students are able to analyze and present a spatial visualization of medium to large scale public spaces	Large Space Drawing Task Series (Case Method)	22.5
4	**CLO1** Students are able to understand the principles and aesthetics of spatial visualization images manually **CLO2** Students are able to understand the concept of coloring in spatial visualization images manually **CLO3** Students are able to analyze and present a spatial visualization of private space **CLO4** Students are able to analyze and present a spatial visualization of medium to large scale public spaces	Mid Semester Evaluation Kognitif (Cognitive - Midterm Exam)	22.5
5	**CLO1** Students are able to understand the principles and aesthetics of spatial visualization images manually **CLO2** Students are able to understand the concept of coloring in spatial visualization images manually **CLO4** Students are able to analyze and present a spatial visualization of medium to large scale public spaces	Final Evaluation (Cognitive - Final Exam)	15
Total Assessment Weight			100

Learning Outcome Plan

Week	Sub Achievement-Subject Final Ability	Breadth (Learning Material)	Learning Method	Estimated Time	Students Learning Experience	Assessment Criteria and Indicator
1 - 2	Students are able to explain the position and relationship of Construction Drawing course subject to other subjects	Introduction of Construction Drawing subject and the relationship with other subjects	Interactive lecture and discussion	2 lectures / meetings @ 120 minutes	Discussion	Attendance and be active during lectures
3 - 5	Students are able to design building construction drawing	Building engineering	Interactive lecture and discussion	3 lectures / meetings @ 120 minutes	Discussion	Be active
6 – 7	Students are able to work together in making construction engineering drawing	Midterm examination and assignment 1	Discussion and presentation	2 lectures / meetings @ 120 minutes	Discussion and presentation	Assignment quality
8 – 9	Students are able to draw according to engineering drawing standards	Construction engineering drawing standard	Interactive lecture and discussion	2 lectures / meetings @ 120 minutes	Discussion	Be active

10	Students are able to make a complete engineering drawing of their own studio assignment	Assignment 2	Interactive lecture and discussion	1 lecture / meeting @ 120 minutes	Discussion and presentation	Assignment quality
11 - 13	Students are able to draw interior engineering drawing using computer	Interior construction drawings	Interactive lecture and discussion	3 lectures / meetings @ 120 minutes	Discussion	Be active
14	Students are able to draw engineering drawings of their studio assignment	Final examination	Discussion and presentation	1 lecture / meeting @ 120 minutes	Discussion	Assignment quality

REFERENCES (max 5):

1. Tamrin A.G. (2008). Teknik Konstruksi Bangunan Gedung. Direktorat Pembinaan Sekolah Menengah Kejuruan. Jakarta
2. Putro. Haryono (-). Konstruksi Bangunan. Universitas Gunadarma
3. – (2006). Pedoman Teknis Bangunan Tahan Gempa. Direktorat Jenderal Cipta Karya

Note:

* Presentations, assignments, discussions, quizzes, laboratory practices