



MODUL HANDBOOK INTERIOR TECHNICAL 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	Interior Technical Drawing
Course unit code	DI1840204
Type of course unit (compulsory, optional) MK wajib/pilihan	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)	1 st year
Semester/trimester when the course unit is delivered	2nd Semester
Number of ECTS credits allocated	4,8 ECTS credits
Name of lecturer(s)	Ir. Nanik Rachmaniyah, M.T.
Learning outcomes of the course unit (CPMK)	<ol style="list-style-type: none"> 1. Students are able to working together in creating interior and building engineering drawing 2. Students are able to communicate their own engineering drawing. 3. students are able to master computers for interior drawing.
Mode of delivery (face-to-face, distance learning)	face-to-face
Prerequisites and co-requisites (if applicable)	Interior Drafting
Course content	<ol style="list-style-type: none"> 1. Interior Technical Drawing Standard. Introduction and Knowledge of: <ol style="list-style-type: none"> a. Refreshing standard drawing technique 1, b. Standard working drawings on interior projects c. Knowledge of floor plans and giving dimensions and floor level. Introduction Knowledge of giving dimensions to interior and architectural drawings d. Knowledge of standardization and supporting elements of a representative image of the pieces and appropriate, <ol style="list-style-type: none"> a. Knowledge of standardization and supporting elements of detail drawings are representative and appropriate. 2. Introduction and knowledge of common interior technical drawing <ol style="list-style-type: none"> a. House Plan 1 storey house with building area 80-100 m² / land area 150-200 m², b. Knowledge of the elements in interior plan drawings, c. Knowledge of the notation and the dimensions contained in the interior plan drawings. d. Draw a floor plan with scale, size, dimension, thickness of line using drawing pen / rapido, Draw lay out furniture on a floor plan using a pencil 3. Floor plan and ceiling plan drawing <ol style="list-style-type: none"> a. Floor plan in interior project and supporting element therein, b. Plafond plan and lighting points in interior

	<p>projects and supporting elements therein.</p> <ol style="list-style-type: none"> 4. Elevation and section drawing for interior <ol style="list-style-type: none"> a. Draw Interior and longitudinal cuts, b. Description of the image on the image pieces are representative and appropriate, c. Standardization creates a snippet image: thick lines, notations, and dimensions 5. Perspective interior drawing: <ol style="list-style-type: none"> a. Perspective drawing 2. b. point perspective, c. Image notation supporting the 2 point perspective image Coloring technique on representative interior engineering drawings. 6. Interior detail technical drawing <ol style="list-style-type: none"> a. Picture of architectural interior detail, picture description and supporting element. b. Picture detail of interior furniture and connection details. c. Picture of architectural interior detail, picture description and supporting element. d. A detailed image of the aesthetic elements of the interior and connection details.
<p>Recommended or required reading and other learning resources/tools</p>	<ol style="list-style-type: none"> 1. Ching, Francis. 2002. Menggambar Suatu Proses Kreatif. Jakarta : Erlangga. 2. F.X Budi Widodo Pangarso. Teknik Gambar Sketsa Arsitektur (interior eksterior). 3. Kiyoo Katsu Suga. 1987. Menggambar Teknik, Edisi 4. Jakarta: Pradya 4. Construction Drawing and Detail for Interior, Rosmary Kilmer and W. Otie Kilmer 5. Architectural Drafting for Interior Design, Lydia Sloan Cline, 2008 6. Hand Drafting for Interior Design, Diana Bennett Witz 2009 7. Richard B. (2004), Building Construction Drawing: A Class-book 8. Herman Hanstein (2018), Constructive Drawing : A Text-Book for Home Instruction, High Schools, Manual Training Schools, Technical Schools and Universities 9. Wong, Wocius, Principles of Form and Design Gollwitzer. Menggambar bagi Pengembangan Bakat. Penerbit ITB. 10. Giesecke, Mitchell, Spencer Hill, Dygdon Novak, Gambar Teknik, 2000, Erlangga 11. Perspective Drawing Handbook (Dover Art Instruction) by Joseph D'Amelio 12. Basic Perspective Drawing: A Visual Approach by John Montague
<p>Planned learning activities and teaching methods</p>	<p>Project-Based Learning</p>
<p>Language of instruction</p>	<p>Indonesia and English</p>
<p>Assessment methods and criteria</p>	<p>Project, assignments, laboratory practices, final project</p>

Learning Outcome (LO)

LO	Description
LO4	Able to present design outputs (process and design results) manually and/ or computer-assisted in 2D and 3D
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 (%)
		LO4	LO8	LO11	
CLO1	Students are able to understand the standardization of drawings of an Interior project		x		30
CLO2	Students are able to make working drawings of interior projects correctly, neatly and communicatively	x			40
CLO3	Students are able to make working drawings of interior supports correctly, neatly and communicatively	x			20
CLO4	Students are able to present complete, systematic and communicative work drawing documents for interior projects			x	10

Assessment Plan

No.	Course Learning Outcomes*	Assessment Technique	Assessment Weight (%)
1	CLO1 Students are able to understand the standardization of drawings of an Interior project	Furniture layout, floor and ceiling plan (Cognitive – Assignment)	15
2	CLO1 Students are able to understand the standardization of drawings of an Interior project	Section drawing and interior detail (Cognitive – Assignment)	15
3	CLO2 Students are able to make working drawings of interior projects correctly, neatly and communicatively CLO4 Students are able to present complete, systematic and communicative work drawing documents for interior projects	Furniture layout, floor and ceiling plan (Case Method)	25
4	CLO2 Students are able to make working drawings of interior projects correctly, neatly and communicatively CLO4 Students are able to present complete, systematic and communicative work drawing documents for interior projects	Section drawing A-A and B-B (Case Method)	25
5	CLO3 Students are able to make working drawings of interior supports correctly, neatly and communicatively	Furniture and door/window frame detail (Case Method)	20
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	Students have an understanding of drawing techniques that are true and good	Introduction and Knowledge of: 1. Refreshing standard drawing technique 1, 2. Standard working drawings on interior projects, 3. Knowledge of floor plans and giving dimensions and floor level. Knowledge of giving dimensions to interior and architectural drawings,	Lecture Introduction & direct practice. 1. Shows examples of engineering drawings for working drawings on interior projects and architectural projects, 2. Explain the differences in engineering drawings for interior and architectural projects, 3. Standardization of engineering drawings for interior projects, 4. Shows how to grant dimensions to interior and architectural drawings (Exercise 1: Practice making wall notes, wood, dimensions and furniture on the floor plan provided)	SL: 2x(1x60") IL:2x(1x60")	<ul style="list-style-type: none"> • Students are able to draw basic notations of interior engineering drawings such as: ordinary wall, trasraam wall, concrete, sand, wood, etc. • Students are able to give dimensions to the floor plan that has been provided in accordance with the standards of representative and representative interior engineering drawings. • Students are able to write the floor level correctly and correctly on the floor plan that has been provided. 	Understand standardization of technical drawing for interior projects
2	Students understand the standardization of interior technical drawings.	Introduction and Knowledge of: 1. Knowledge of standardization and supporting elements of a representative image of the pieces and appropriate, 2. Knowledge of standardization and	Lecture Introduction & direct practice. 1. Resume task 1, 2. Reviewing the projection image, isometry and A-A 'pieces on task 1, 3. Provide	SL: 2x(1x60") IL:2x(1x60")	Draw 3 projection, isometry, piece A-A ' elevation and detail from Task 1 neatly and appropriately.	Standardize projection drawing, isometry of A-A 'elevation and details.

		supporting elements of detail drawings are representative and appropriate.	<p>sample images of pieces and their supporting elements,</p> <p>4. Provide examples of detail drawing and standardization of detail, along with its supporting elements.</p> <p>(Task-2: Resume task 1 and complete with detail and supporting elements)</p>			
3	Students are able to explore technical drawing on Interior Design and are able to draw an Interior project properly.	<p>Introduction and Knowledge of:</p> <p>1. House Plan 1 storey house with building area 80-100 m² / land area 150-200 m²,</p> <p>2. Knowledge of the elements in interior plan drawings,</p> <p>3. Knowledge of the notation and the dimensions contained in the interior plan drawings.</p> <p>4. Draw a floor plan with scale, size, dimension, thickness of line using drawing pen / rapido,</p>	<p>Lecture Introduction & direct practice.</p> <p>1. Show examples of interior plan drawings and explain the elements of support therein,</p> <p>2. Shows the type of notation supporting the interior plan,</p> <p>3. Shows how to give dimensions to the representative and proper interior plan</p> <p>4. Drawing and arranging lay out furniture on the floor plan that has been in the picture.</p>	<p>SL: 2x(1x60")</p> <p>IL:2x(1x60")</p>	Make a map of the floor plan and lay out the interior furniture with the right and neat.	Understand how to draw floor plans and lay out of interior furniture and supporting elements in it in accordance with the image of the correct and appropriate interior techniques.

		Draw lay out furniture on a floor plan using a pencil.	Task-2: Drawing a Residential Home Plan)			
4	Students are able to explore technical drawing on Interior Design and are able to draw an Interior project properly.	Introduction and Knowledge of: 1. House Plan 1 storey house with building area 80-100 m2 / land area 150-200 m2, 2. Knowledge of the elements in interior plan drawings, 3. Knowledge of the notation and the dimensions contained in the interior plan drawings. 4. Draw a floor plan with scale, size, dimension, thickness of line using drawing pen / rapido, Draw lay out furniture on a floor plan using a pencil.	Lecture Introduction & direct practice. 1. Continue the dwelling plan 2. Drawing and arranging lay out furniture on the floor plan that has been in the picture. (Residence occupancy assistance)	SL: 2x(1x60") IL:2x(1x60")	Make a map of the floor plan and lay out the interior furniture with the right and neat.	Understand how to draw floor plans and lay out of interior furniture and supporting elements in it in accordance with the image of the correct and appropriate interior techniques.
5, 6	Students are able to explore technical drawing on Interior Design and are able to draw an Interior project properly.	Introduction and Knowledge of: 1. Floor plan in interior project and supporting element therein, 2. Plafond plan and lighting points in interior projects and supporting elements therein.	Lecture Introduction & direct practice. 1. Giving an example of a picture of the floor plan and the supporting elements therein, 2. Provide an example of a picture of the ceiling plan and the point of light and its supporting elements therein, 3. Give examples of various types and characteristics of floor coverings and ceilings	SL: 2x(1x60") IL:2x(1x60")	Able to create an image of the floor plan and ceiling plan and lighting points along with the description of the image with a representative, precise and neat	1. Understand and have skill in drawing floor plan and give picture description, 2. Understand and have skill in drawing ceiling plan and point lamp and give description picture,

			<p>and picture notation.</p> <p>4. Draw floor plan using ceramic 40x40 cm for indoor and outdoor occupancy, and 20x20 cm for WC as well as giving picture description,</p> <p>5. Draw a ceiling plan using a gypsumboard with a metalstud frame and define the point of the lamp as well as give the image a thinness.</p> <p>(Task-3: Drawing a Floor Plan) (Task-4: Drawing Ceiling Plans and Lighting Point)</p>			
7	Students are able to create interior design elevation	<p>Introduction and Knowledge of:</p> <ol style="list-style-type: none"> 1. Draw Interior and longitudinal cuts 2. Description of the image on the image pieces are representative and appropriate, 3. Standardization creates a snippet image: thick lines, notations, and dimensions. 	<p>Lecture Introduction & direct practice.</p> <ol style="list-style-type: none"> 1. Shows the cut image along with the description of the image on the interior project, 2. Student draws A-A 'cross-sectional image of the existing floor plan. <p>(Task-5: Drawing A-A Pieces')</p>	<p>SL: 2x(1x60") IL:2x(1x60")</p>	Make an A-A 'elevation image appropriately, representative and neat	Understand as well as have the skill in drawing A-A 'elevation of interior plan and drew right and representative.
8	Midterm Examination : Elevation B – B'					
9 - 11	Students are able to create perspective images well and representative.	<p>Introduction and Knowledge of:</p> <ol style="list-style-type: none"> 1. Perspective drawing 2. 2 point perspective, 	<p>Lecture Introduction & direct practice.</p> <ol style="list-style-type: none"> 1. Review the 2 point perspective image lost, by making perspective 	<p>SL: 2x(1x60") IL:2x(1x60")</p>	Creating a perspective picture of 2 points the interior and coloring the map and perspective image	<ol style="list-style-type: none"> 1. Understand and have the skill in drawing perspective 2 points missing

		3. Image notation supporting the 2 point perspective image Coloring technique on representative interior engineering drawings.	2 point missing simple object, 2. Creating a perspective image of 2 missing points 3. Coloring the image on Task 2 and perspective drawing (Task-6: Drawing Perspective 2 missing points, coloring the floor plan and perspective)		with precise and neat	interior 2. Understand as well as have the skills in coloring interior images
12, 13	Students are able to make technical drawings of details of the Interior project	Introduction and Knowledge of: 1. Picture of architectural interior detail, picture description and supporting element. 2. Picture detail of interior furniture and connection details.	Lecture Introduction & direct practice. 1. Give examples of detail pictures in interior projects, 2. Provide examples of detailed interior images - architecture, 3. Give examples of detail drawings and furniture connections. (Task-7: Draw furniture and connection details)	SL: 2x(1x60") IL:2x(1x60")	Make detailed drawings and furniture connections appropriately and neatly	Understand and have the skill in drawing detail and connection of furniture properly and correctly.
14	Students are able to make technical drawings of details of the Interior project	Introduction and Knowledge of: 1. Picture of architectural interior detail, picture description and supporting element. 2. A detailed image of the aesthetic elements of the interior and connection details.	Lecture Introduction & direct practice. 1. Give examples of detail pictures in interior projects, 2. Provide examples of detailed interior images - architecture, 3. Provide examples of detailed images and aesthetic element connections.	SL: 2x(1x60") IL:2x(1x60")	Make detailed images and connections of aesthetic elements appropriately and neatly	Understand and have the skill in drawing the detail and connection of aesthetic elements properly and correctly.

			(Task 8: Draw furniture and connection details)			
15	Students are able to explain / present a project work drawing to the project owner in a manner	lectures review and presentations of interior engineering drawings	Discussion and brainstorming	SL: 2x(1x60") IL:2x(1x60")	Knowing the mistakes and how to draw the right and true, dare to present the image of interior techniques.	Understand the material that has been delivered and able to present well and interesting.
16	Final Examination : Final Project					

REFERENCES (max 5)

1. Ching, Francis. 2002. Menggambar Suatu Proses Kreatif. Jakarta : Erlangga.
2. F.X Budiwidodo Pangarso. Teknik Gambar Sketsa Arsitektur (interior eksterior).
3. Kiyoo Katsu Suga. 1987. Menggambar Teknik, Edisi 4. Jakarta: Pradya

Note:

- 1 credit = (50' L/M + 60' SL + 60' IL)/Week
IL = Independent Learning
T = Theory (knowledge)
L/M = Meeting (Lecture)
PS = Practical Simulation (3 hours/week)
P = Practice (Skillfulness aspect)
SL = Structured Learning
LP = Laboratory Practice (3 hours/week)