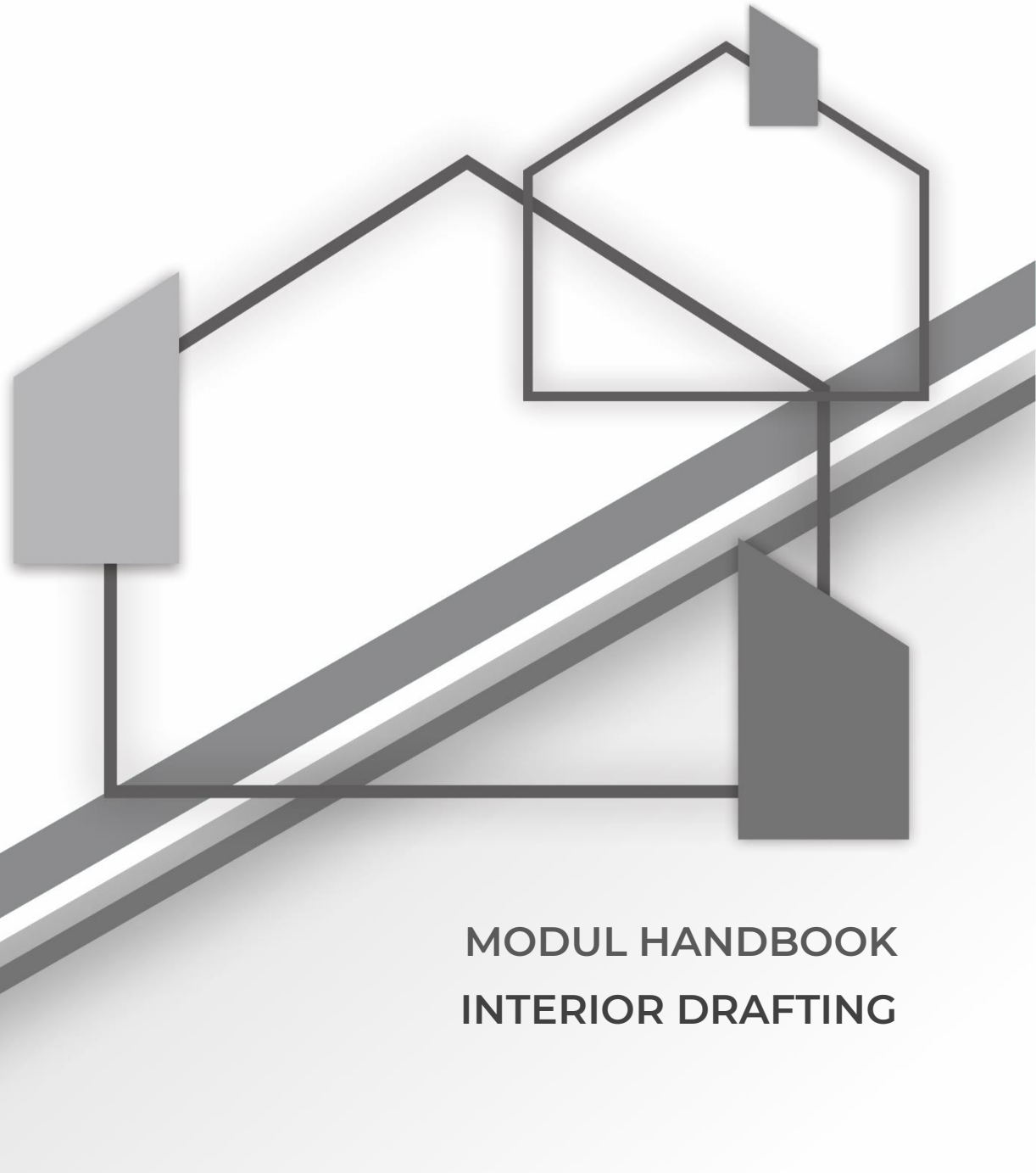




MODUL HANDBOOK INTERIOR DRAFTING

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 Drafting
Course unit code	DI184102
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)	1 st year
Semester/trimester when the course unit is delivered	1 st semester
Number of ECTS credits allocated	3,2 ECTS credits
Name of lecturer(s)	Ir. Nanik Rachmaniyah, M.T.
Learning outcomes of the course unit	<ol style="list-style-type: none"> 1. Students are able to understand interior drafting standardization (line, letter, and number notations) 2. Students are able to explore interior drafting in interior design basics 3. Students are able to use their spatial understanding in simple projection drawing for work drawing 4. Students are able to make elevation drawings from every angle 5. Students are able to draw basic 3D drawings (isometric, dimetric, trimetric, and oblique) and single vanishing point drawings 6. Students are able to make basic work drawings using the ISO standard 7. Students are able to present their work drawings to project owners
Mode of delivery (face-to-face, distance learning)	face-to-face
Prerequisites and co-requisites (if applicable)	
Course content	<ol style="list-style-type: none"> 1. Architectural, civil, and interior work drawing basics 2. Line thickness and variation in work drawings 3. Object projection drawing and coordinates 4. Line notation, dimensions, and title block 5. Simple elevation drawing using basic blocks 6. European and American elevation drawings 7. 1st and 3rd quadrant projections 8. Section drawing and furniture detail drawing 9. Furniture isometric drawing 10. Theory of single and double vanishing point perspective drawing for furniture projection
Recommended or required reading and other learning resources/tools	<p>Ching, Francis, [2002]. <i>Menggambar Suatu Proses Kreatif</i>. Jakarta, Penerbit Erlangga.</p> <p>Giesecke, Frederick E., Mitchell, Alva., Spencer, Henry Cehcl., Hill, Ivan Leroy., Dygdon, John Thomas dan Novak, James E., [2002]. <i>Gambar Teknik , Jilid 1, Edisi Kesebelas</i>. Jakarta, Penerbit Erlangga.</p>

	Koch, Robert., Muller, Willi., Ruegg, Ueli., Stahli, Richard dan Waber, Erns, [1997]. <i>Pedoman Gambar Kerja</i> . Semarang, Kanisius.
Planned learning activities and teaching methods	Blended Learning
Language of instruction	Indonesian and English
Assessment methods and criteria	Assignment, Project, Final Evaluation

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 accessories 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 CLO3 Students are able to make working drawings of interior accessories correctly, neatly and communicatively	Basic Technical Drawing Assignment (Case Method)	20
2	CLO1 Students are able to understand the standardization of drawings of an Interior project CLO3 Students are able to make working drawings of interior accessories correctly, neatly and communicatively	Drawing 3 View of Furnitur (Case Method)	20
3	CLO2 Students are able to make working drawings of interior projects correctly, neatly and communicatively CLO3 Students are able to make working drawings of interior accessories correctly, neatly and communicatively CLO4 Students are able to present complete, systematic and communicative work drawing documents for interior projects.	Section Drawing Furnitur (Case Method)	30
4	CLO2 Students are able to make working drawings of interior projects correctly, neatly and communicatively CLO3 Students are able to make working drawings of interior accessories correctly, neatly and communicatively CLO4 Students are able to present complete, systematic and communicative work drawing documents for interior projects.	Isometry and Perspective Drawing (Case Method)	30
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 know the learning materials and understand the standardization of engineering drawing such as notation of numbers, letters and lines.	Introduction and knowledge of : 1. Engineering drawing for machine, civil and interior design – architecture. 2. Supplies and equipment required. 3. Lecture rules, assessments, and assignments. Theory about types of lines and thickness.	Introduction Lecture & direct practice. 1. Showing examples of engineering drawings for mechanical engineering, civil engineering and interior-architecture. 2. Standardization of technical letters and numbers. 3. Tidiness of engineering drawing. 4. Showing examples of lines and standard of accuracy and tidiness. (Exercise 1 : Practice writing capital letters and technical numbers with 3 different sizes. Take-home assignment 1: Application of line with different types and thicknes.)	SL: 2x(1x60") IL:2x(1x60")	<ul style="list-style-type: none"> • Students are able to write various sizes of technical numbers and letters, • Students are able to draw lines with different thickness using engineering drawing standard. 	Understand the standardization of engineering drawings for notation: numbers, letters
2	Students understand spatial space. Students are able to calculate area and volume of geometric	Introduction and knowledge of : Coordinate space.	Lecture & direct practice. Drawing coordinate space and pyramid, geometric projection,	SL: 2x(1x60") IL:2x(1x60")	<ul style="list-style-type: none"> • Students are able to calculate area and volume of geometric solids 	Understand spatial space and able to calculate area and volume of geometric solids.

	solids.		calculating surface area, net. Group of 3-4 students. (Assignment-2: Draw and calculate a pyramid)			
3	Students understand spatial space. Students are able to calculate area and volume of geometric solids.	Introduction and knowledge of : Coordinate space.	Drawing coordinate space and pyramid, geometric projection, calculating surface area, net. (continuing Assignment-2)	SL: 2x(1x60") IL:2x(1x60")	<ul style="list-style-type: none"> Students are able to calculate area and volume of geometric solids 	
4	Students know the types of quadrant 1 and 3 projection, the placement of multiview drawings as well as understanding the standardization of notation of lines in engineering drawing.	Introduction and knowledge of : 1. Notation of lines, dimensions, and header; 2. Graphical projection; 6 views of simple form objects;	Introduction lecture and direct practice. 1. Show examples of drawing with American projection (quadrant 3) & European projection (quadrant 1). 2. Show examples of multiview drawing of complex object in quadrant 3 projection. 3. Show the process of drawing in quadrant 3 projection. (Assignment-3: draw 6 views of simpleform object using American projection/quadrant 3)	SL: 2x(1x60") IL:2x(1x60")	Students are able to draw 6 views with different types of line and thickness accurately and neatly.	Understanding quadrant 3 projection and standardization of engineering drawing for accurate and neat line notation.

5	Students have knowledge about spatial and types of projection drawings and able to draw simple engineering drawing.	Introduction and Knowledge of : 1. American – European projection 2. 6 views drawing of complex object (views : top – bottom – front – back – left – right) 3. Quadrant 3 projection	Introduction Lecture & direct practice. 1. Show examples of American projection (quadrant 3) & European projection (quadrant 1). 2. Show examples of drawing complex object in quadrant 3 projection. 3. Show the process of drawing in quadrant 3 projection. (Assignment-4: draw 6 views of complex object using American projection/quadrant 3)	SL: 2x(1x60") IL:2x(1x60")	Drawing complex objects in quadrant 3 projection accurately and neatly.	Understanding the differences between American and European projections and understanding techniques of drawing quadrant 3 projection.
6	Students have knowledge about spatial and types of projection drawings and able to draw simple engineering drawing.	Introduction and Knowledge of : 1. American – European projection 2. 6 views drawing of complex object (views : top – bottom – front – back – left – right) 3. Quadrant 1 projection	Introduction Lecture & direct practice. 4. Show examples of American projection (quadrant 3) & European projection (quadrant 1). 5. Show examples of drawing complex object in quadrant 1 projection. 6. Show the process of drawing in quadrant 1 projection.	SL: 2x(1x60") IL:2x(1x60")	Drawing complex objects in quadrant 1 projection accurately and neatly.	Understanding the differences between American and European projections and understanding techniques of drawing quadrant 1 projection.

			(Assignment-5: Draw 3 views of a complex 3D object in European projection/quadrant 1)			
7	Students are able to draw multiview and projection drawing of a simple furniture from various sides.	Introduction and Knowledge of : 1. Multiview drawing of a simple furniture in quadrant 1, objects : wardrobe/credenza and studio chair/table, Projection drawing of a simple furniture in quadrant 1, objects : wardrobe/credenza and studio chair/table.	Introduction Lecture & direct practice. • Show the process of drawing in quadrant 1 projection, object : studio chair/table (Assignment-6: Draw a multiview and projection of a real object, studio chair/table)	SL: 2x(1x60") IL:2x(1x60")	Draw 3 main views and projection of a simple furniture accurately and neatly.	1. Understand and have skills to copy a drawing of an object. 2. Understand and have skills in measuring and drawing real objects. 3. Able to draw multiview and projection of a simple furniture.
8	Students are able to draw sections and details of a simple furniture from various sides.	Introduction and Knowledge of : 1. Section drawing of a simple furniture 2. Detail drawing of a simple furniture	Introduction Lecture & direct practice. 1. Show the process of drawing sections of object sample. 2. Show the process of drawing details of object sample. (Assignment-7: Draw sections of studio chair/table and details of studio chair/table)	SL: 2x(1x60") IL:2x(1x60")	Draw sections and details of a simple furniture accurately and neatly.	Understand and have skills in drawing sections and details of a simple furniture.
9	Students are able to draw an isometric of an object.	Introduction and Knowledge of isometric drawing of a simple form.	Introduction Lecture & direct practice. • Show the process of isometric drawing of a simple form. (Assignment-8: Draw	SL: 2x(1x60") IL:2x(1x60")	Draw isometric of a simple object and simple furniture accurately and neatly.	Have skills in isometric drawing.

			isometric of a simple object) (Take-home assignment: Take a photo of a furniture in your home, will be approved by lecturer for final project)			
10	Midterm examination : Draw 3 views and section of a furniture in quadrant 1 projection					
11	Students are able to draw 1 point perspective of a simple furniture.	Introduction and Knowledge of 1 point perspective drawing of a simple furniture.	Introduction Lecture & direct practice. The process of drawing 1 point perspective of a simple furniture. (Assignment-9 : Draw 1 point perspective of a simple furniture Take-home assignment: Draw an engineering drawing of a selected furniture/final project)	SL: 2x(1x60") IL:2x(1x60")	Draw 1 point perspective of a simple furniture accurately and neatly.	Understand and have skills in drawing 1 point perspective precisely.
12	Students are able to draw 2 point perspective of a simple object.	Introduction and Knowledge of a simple 2 point perspective drawing.	Introduction Lecture & direct practice. The process of drawing a simple 2 point perspective. (Assignment-10 : Draw 1 point perspective of a simple furniture Take-home assignment: Draw an engineering drawing of a selected furniture/final project)	SL: 2x(1x60") IL:2x(1x60")	Draw 2 point perspective of a simple furniture accurately and neatly.	Understand and have skills in drawing 2 point perspective precisely.

13	Students are able to draw 2 point perspective of a simple furniture.	Introduction and Knowledge of 2 point perspective drawing of a simple furniture.	Introduction Lecture & direct practice. The process of drawing 2 point perspective of a simple furniture. (Assignment-11 : Draw 2 point perspective of a simple furniture Take-home assignment: Draw an engineering drawing of a selected furniture/final project)	SL: 2x(1x60") IL:2x(1x60")	Draw 2 point perspective of a simple furniture accurately and neatly.	Understand and have skills in drawing 2 point perspective precisely.
14	Students are able to understand the material that has been delivered.	Review and practice course materials from week 1 – 13.	Discussion and brainstorming	SL: 2x(1x60") IL:2x(1x60")	Know the mistakes and know how to draw correctly.	Understand the material that has been delivered.
15	Students are able to draw a basic engineering drawing from a project using ISO standard and able to explain/present the engineering drawing of a project to project owner properly.	Introduction and Knowledge of engineering drawing of furniture in project and how to present it properly and correctly.	Introduction Lecture and direct practice. Draw a simple furniture from home, take a picture of it and draw 6 views, section, detail, and 2 point perspective along with material data needed. (Final project : furniture engineering drawing)	SL: 2x(1x60") IL:2x(1x60")	Final project, accurate and neat engineering drawing.	Understand and have skills in engineering drawing and presenting it.
16	Final examination : Final project and perspective drawing.					

REFERENCES (max 5)

Ching. Francis, [2002]. Menggambar Suatu Proses Kreatif. Jakarta, Penerbit Erlangga.

Giesecke, Frederick E., Mitchell, Alva., Spencer, Henry Cehcl., Hill, Ivan Leroy., Dygdon, John Thomas dan Novak, James E., [2002]. Gambar Teknik , Jilid 1, Edisi Kesebelas. Jakarta, Penerbit Erlangga.

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