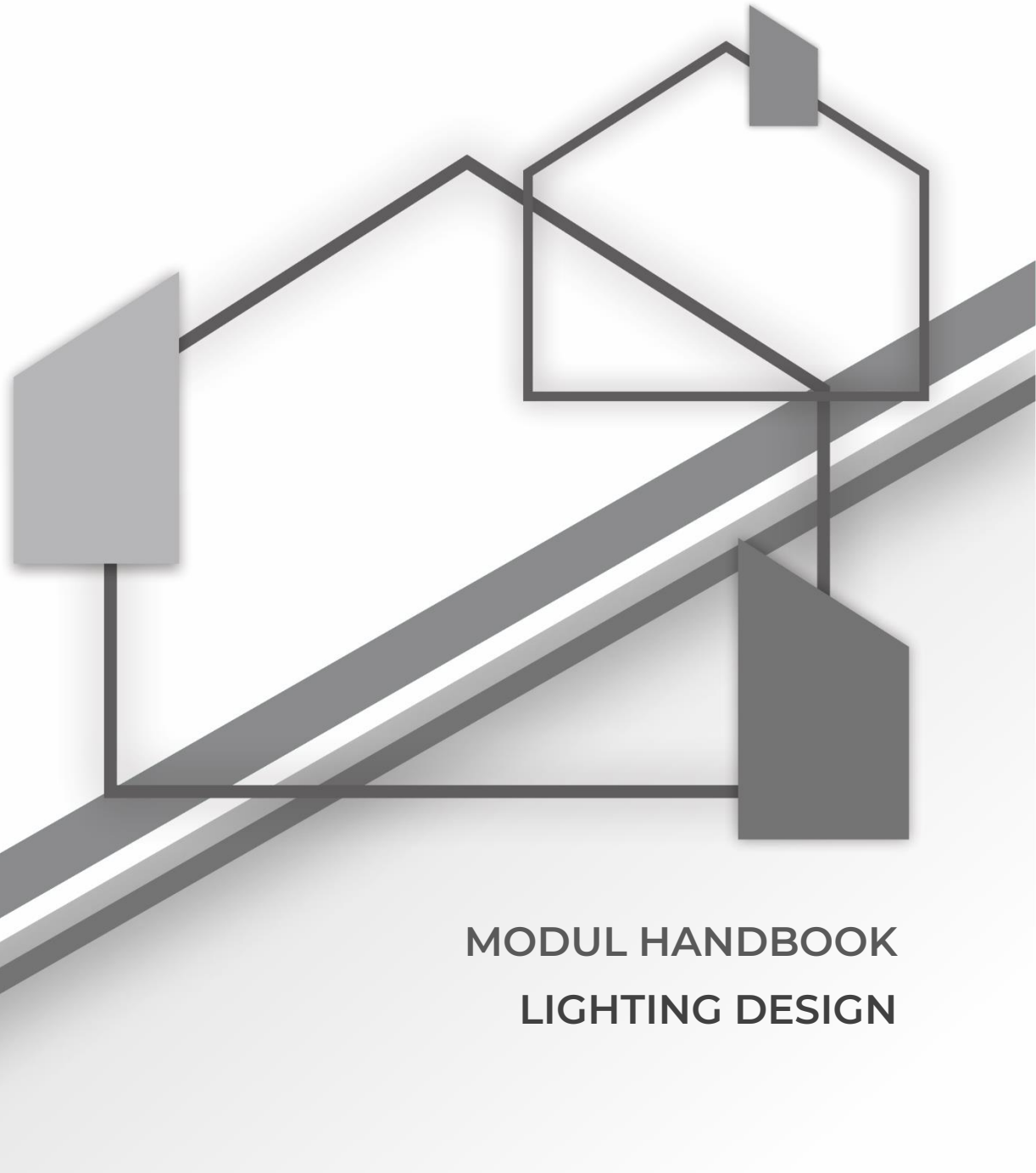




MODUL HANDBOOK LIGHTING DESIGN

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	Lighting Design
Course unit code	DI184628
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)	3 rd year
Semester/trimester when the course unit is delivered	6 th semester
Number of ECTS credits allocated	3.2 credits
Name of lecturer(s)	Thomas Ari Kristianto, S.Sn., M.T.
Learning outcomes of the course unit	<ol style="list-style-type: none"> 1. Students are able to work together in finding the problems and solving the problem of design concepts in the context of lighting design 2. Students are able to make lighting design analysis in interior 3. Students are able to master lighting design
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. Basic Artistic System: lighting and stage system 2. The Basics of Lighting design 3. Lighting Equipment
Recommended or required reading and other learning resources/tools	<ol style="list-style-type: none"> 1. Cross, Nigel (2001), Engineering Design Methods, Singapore, John Wiley & Sons. 2. Panero, Julius dan Zelnik, martin (1979), 'Dimensi Manusia dan Ruang Interior', Erlangga, Jakarta. 3. Mahardini (2010), Desain Rumah Buku, Tugas Akhir ITS. 4. Maulana, Dihlis (2010), Tugas Desain Interior 2, ITS, Surabaya. 5. R Bean. 2014. Lighting: interior and exterior 6. Odabaşioğlu, S. and Olguntürk, N., 2015. Effects of coloured lighting on the perception of interior spaces. Perceptual and motor skills, 120(1), pp.183-201. 7. Poldma, T., 2009. Learning the dynamic processes of color and light in interior design. Journal of Interior Design, 34(2), pp.19-33. 8. Park, N.K. and Farr, C.A., 2007. The effects of lighting on consumers' emotions and behavioral intentions in a retail environment: A cross-cultural comparison. Journal of Interior Design, 33(1), pp.17-32. 9. Winchip, S., 2022. Fundamentals of Lighting:-with STUDIO. Bloomsbury Publishing USA. 10. Kristian, M.S. and HALIM, E.A., 2018. Pengaruh Cara Distribusi Pencahayaan Buatan Pada Kenyamanan Bercengkerama Pengunjung Kafe. Serat Rupa Journal of

	Design, 2(2), pp.148-162.
Planned learning activities and teaching methods	Problem-Based Learning, Project-Based Learning, and Blended Learning
Language of instruction	Indonesia and English
Assessment methods and criteria	Assignment, Project, Lab Practices, Quizzes, Midterm Exam and Final Exam

Learning Outcome (LO)

LO	Description
LO1	Able to think critically in conducting interior design research
LO2	Able to think critically and creatively in preparing interior design ideas/ concepts
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

Course Learning Outcome (CLO)

CLO	Description	Mapping of CLO to LO				Weight of CLO (%)
		LO 1	LO 2	LO3	LO8	
CLO1	Students are able to understand the basic principles of natural lighting and its application in interior spaces	x			x	25
CLO2	Students are able to take measurements, analyze natural lighting and present solutions to achieve comfort in interior spaces		x	x	x	25
CLO3	Students are able to understand the principles and standards of artificial lighting and its application to interior spaces	x			x	25
CLO4	Students are able to carry out needs assessments and present artificial lighting solutions in interior spaces according to the function of the room		x	x	x	25

Assessment Plan

No.	Course Learning Outcomes*	Assessment Technique	Assessment Weight (%)
1	CLO1 Students are able to understand the basic principles of natural lighting and its application in interior spaces	Natural Lighting Metering Task Series (Case Method)	10
2	CLO1 Students are able to understand the basic principles of natural lighting and its application in interior spaces CLO2 Students are able to take measurements, analyze natural lighting and present solutions to achieve comfort in interior spaces	Natural Lighting Solutions Task Series (Case Method)	22,5
3	CLO3 Students are able to understand the principles and standards of artificial lighting and its application to interior spaces	Artificial Lighting Study Task Series (Case Method)	10
4	CLO3	Artificial Lighting Solutions Task	22,5

No.	Course Learning Outcomes*	Assessment Technique	Assessment Weight (%)
	<p>Students are able to understand the principles and standards of artificial lighting and its application to interior spaces</p> <p>CLO4 Students are able to carry out needs assessments and present artificial lighting solutions in interior spaces according to the function of the room</p>	Series (Case Method)	
5	<p>CLO1 Students are able to understand the basic principles of natural lighting and its application in interior spaces</p> <p>CLO3 Students are able to understand the principles and standards of artificial lighting and its application to interior spaces</p>	Mid Semester Evaluation (Cognitive - Midterm Exam)	15
6	<p>CLO2 Students are able to take measurements, analyze natural lighting and present solutions to achieve comfort in interior spaces</p> <p>CLO4 Students are able to carry out needs assessments and present artificial lighting solutions in interior spaces according to the function of the room</p>	Final Evaluation (Cognitive - Final Exam)	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 – 2	Students are able to explain the position and relationship of Lighting Design course subject to other subjects	Introduction of Lighting Design 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 analyze lighting design needs for a stage	Lighting design and stage	Interactive lecture and discussion	3 lectures / meetings @ 120 minutes	Discussion	Be active
6 – 7	Students are able to work together in planning lighting design for a stage	Midterm examination and assignment 1	Discussion and presentation	2 lectures / meetings @ 120 minutes	Discussion and presentation	Assignment quality
8 – 9	Students are able to master the basics of lighting design	Basics of lighting design	Interactive lecture and discussion	2 lectures / meetings @ 120 minutes	Discussion	Be active
10	Students are able to work together in planning lighting design using basics of lighting design	Assignment 2	Interactive lecture and discussion	1 lecture / meeting @ 120 minutes	Discussion and presentation	Assignment quality
11 – 13	Students are able to create a lighting design concept	Lighting design tools	Interactive lecture and discussion	3 lectures / meetings @ 120 minutes	Discussion	Be active
14 - 16	Students are able to work together in planning lighting design for their own interior design project	Final examination	Discussion and presentation	1 lecture / meeting @ 120 minutes	Discussion	Assignment quality

REFERENCES (max 5)

1. Cross, Nigel (2001), Engineering Design Methods, Singapore, John Wiley & Sons.
2. Panero, Julius dan Zelnik, martin (1979), 'Dimensi Manusia dan Ruang Interior', Erlangga, Jakarta.
3. Mahardini (2010), Desain Rumah Buku, Tugas Akhir ITS.
4. Maulana, Dihlis (2010), Tugas Desain Interior 2, ITS, Surabaya.
- 5.

Note:

* Presentations, assignments, discussions, quizzes, lab practices