

Product Design 3 DESCRIPTION OF COURSE UNIT

Program Studi Sarjana (S1) Desain Produk Bachelor of Industrial Design (BOID) 2018-2023



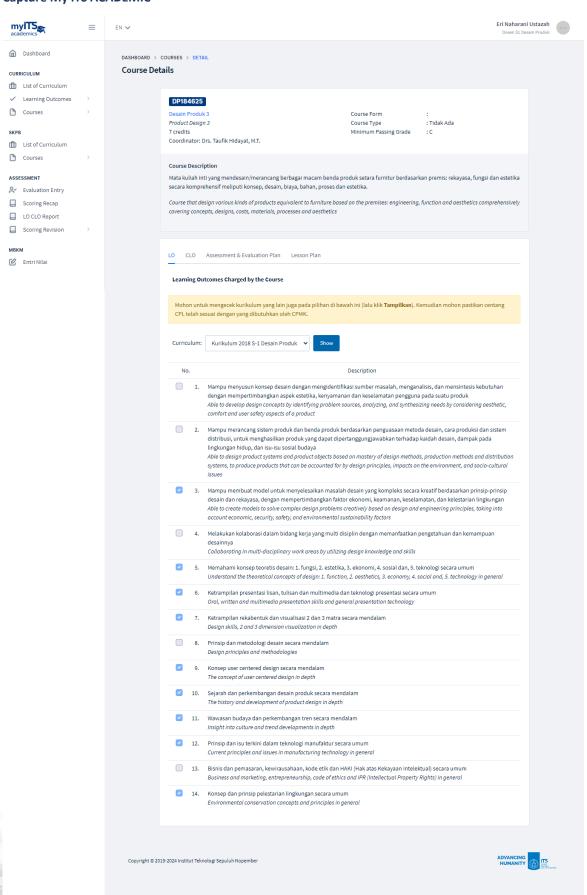
<u>Description of Course Unit</u> according to the ECTS User's Guide 2015

Course unit title	Product Design 3
Course unit code	DP184625
Type of course unit	Compulsory
Level of course unit	First cycle Bachelor
Year of study when the course unit is delivered	5 th year
Semester/trimester when the course unit is delivered	6 th semester
Number of ECTS credits allocated	11,2 ECTS Credits
Name of lecturer	Drs. Taufik Hidayat, M.T.
Learning outcomes of the course unit	Students will be able to design various products equivalent to furniture based on comprehensive premises: engineering, functionality, and aesthetics (concept, design, costing, materials, processes, and aesthetics).
Mode of delivery	face-to-face
Prerequisites and co-requisites	-
Course content	Product Design 3 is a core course that covers designing products equivalent to furniture with the premises of engineering, functionality, and aesthetics. • Introduction to furniture product design and analyzing phenomena related to product design problems. • Title creation, problem definition, and limitations. • Search for methods suitable for the problem. • Types of joints: wood, rattan, metal, and others. • Types of furniture accessories and/or furniture. • Preservation processes for natural materials (wood, rattan) • Furniture manufacturing processes and finishing. • Types of simple mechanics in furniture. • Introduction to several material characteristics. • Methods of analysis - problem-solving analysis. • Furniture design concepts. • Functionality premises: Needs, activities, anthropometrics, ergonomics, weight and volume, layout, study of item treatment/nature of the item.

Recommended or required reading and other learning resources/tools	mechanical movement, manufacturing processes, tools or machines, components or accessories, materials, and processes. • Aesthetic premises: Form and color of designed furniture. • Use of data from both psychological and sociological perspectives. • Application of rule-based data in other furniture product designs. • Prototype creation. • Standardization of presentations, both verbal, visual, model, and/or prototype. • Display and/or exhibition. • Dreyfuss, Henry, 1999, The Measure of man, human factor in design, Whitney Library of Design, New York • Alvin R. Tilley, 1993, The Measure of man and and woman, Human factors in design, The Whitney Library of design, New York • Ernest, J, Mc Cormic, 1996, Human factor in ngineering and design, Tata Mc Graw-Hill, New York • Kimberly, Elam, 2001, Geometry of design, studies ini Proportion and composition, Princeton Architectural
Planned learning activities and teaching methods	Press, 37 East 7th Street, New York, new York 10003 Discovery Learning; Project Based Learning; Case Method
Language of instruction	Indonesia
Assessment methods and criteria	Assignment, Project, Midterm Evaluation and Final Evaluation

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	promoting a dedicate	DETAIL										
CURRICULUM List of Curriculum	Course Details											
✓ Learning Outcomes >	DP18	4625										
Courses >		Produk 3 Design 3			Course				: : Tidak	Ada		
SKPB List of Curriculum	7 credit Coordin	s iator: Drs. Taufik Hidayat, M.T.			Minim	um Pas	sing Grad	de	:C			
Courses >	6	December 1										
ASSESSMENT	Mata ku	Description liah inti yang mendesain/merancang berbagai					itur ber	dasarka	n premi	s: rekaya	asa, fung	si dan estetika
Ar Evaluation Entry ☐ Scoring Recap		tomprehensif meliputi konsep, desain, biaya, b that design various kinds of products equivalent					u ongina	orina f	unction	and acet	hotics co	umprohonsiyoly
Scoring Recap LO CLO Report		g concepts, designs, costs, materials, processes			on the p	Ji ettilise.	s. engine	ering, n	unction	<i>3110</i> 0051	neucs co	imprenensively
Scoring Revision												
MBKM	LO C	CLO Assessment & Evaluation Plan Less	on Plan									
	Course	Learning Outcomes										
		on untuk mengecek kurikulum yang lain juga pa elah sesuai dengan yang dibutuhkan oleh CPM		n di baw	ah ini (la	alu klik 1	Fampilk	an). Ker	mudian	mohon p	oastikan	centang
	Curric	ulum: Kurikulum 2018 S-1 Desain Produk	∨ Sho	w								
						Mappir	g of CLC	to LO				Weight of
	Coc	de Description of CLO	LO 3	LO 5	LO 6	LO 7	LO 9	LO 10	LO 11	LO 12	LO 14	CLO
	cro	Mampu mengidentifikasi urgensi, tujuan dan manfaat, batasan masalah, serta kesesualan desain akhir dengan kebutuhan dan permasalahan Abie to identify urgency, goals and benefits, problem limitations, and suitability of the final design with	0				0					15%
	cro	needs and requirements problem Mahasiswa mampu menganalisis meliputi kesesualan tolok ukur, kesinambungan analisis dengan kebutuhan, kewajaran dan kelengkapan kriteria desain. Students ore able to analyze including the suitability of benchmarks, continuity of analysis with needs, fairness and completeness of design criteria.		•								15%
	cLO	Mampu mempresentasikan desain secara lisan, tulisan, dan multimedia dalam bentuk abstraksi dan visual, secara detil fungsinya Able to present designs orally, in writing, and multimedia in the form of abstractions and visuals, in detail their functions										15%
	cro	Mampu mengaplikasikan teknologi dan peralatan yang berkaitan dengan representasi desain secara multi- dimensional (20 dan 30), dalam pengembangan desain Abie to apply technology and equipment related to multi- dimensional (20 and 30) design representation, in design development		•					0	•		15%
	cro	Mampu mengusulkan solusi terbaik dengan mengevaluasi alternatif-desain, melakukan tes dan menyempumakan solusi untuk menyelesaikan masalah desain berdasarkan pertimbangan -5 manufaktur, efisiensi produksi Abie to propose the best solution by evoluoting design-alternatives, conducting tests and refining solutions to solve design problems based on manufacturing considerations, production efficiency							•	•		20%



11% 11% 11% 6% 17% 6% 17% 17% 6% 100%

Mampu membuat model dan prototipe sebagai bahan studi dan simulasi operasional dan aktivitas Able to make models and prototypes as study object, operational and activity simulations

Total Weight

CLO-6

n Dashboard

CURRICULUM

List of Curriculum ✓ Learning Outcomes

Courses

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ASSESSMENT

S Evaluation Entry

Scoring Recap LO CLO Report

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Entri Nilai

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Course Details

DP184625

Product Design 3 Coordinator: Drs. Taufik Hidavat, M.T. Course Form Course Type Minimum Passing Grade

: Tidak Ada

Course Description

LO CLO Assessment & Evaluation Plan Lesson Plan

Mata kuliah inti yang mendesain/merancang berbagai macam benda produk setara furnitur berdasarkan premis: rekayasa, fungsi dan estetika secara komprehensif meliputi konsep, desain, biaya, bahan, proses dan estetika.

 $Course \ that \ design \ various \ kinds \ of \ products \ equivalent \ to \ furniture \ based \ on \ the \ premises: engineering, function \ and \ aesthetics \ comprehensively$ covering concepts, designs, costs, materials, processes and aesthetics

Assessment & Evaluation Plan 1 Pemenuhan Kebutuhan dan 10% Fulfillment of Needs and Problems Studi Kasus | Case Method 2 Ketajaman Analisis Desain Kognitif - Tugas | Cognitive -Product innovation 2 5% 2 5% 10% Kognitif - Tugas | Cognitive -Assignment 4 Mekanisme Sistem Studi Kasus | Case Method 5 Material dan Struktur Studi Kasus | Case Method 6 Gambar Kerja dan Assembly Drawing and Assembling

Kognitif - Tugas | Cognitive -2.5% 2.5% 7 Struktur Laporan Report Structure Kognitif - Tugas | Cognitive -

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Assignment 8 Model/prototype Model/prototype

Hasil proyek | Team-based Proiect TOTAL

Target

15%

15%

15%

15%

20%

20%







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Course Details





