木更津工業高等専門学校				開講年度	令和04年度 (2	.022年度)	授	業科目	日本事情Ⅲ
科目基础						•	•		
科目番号 0076						科目区分	一般 / 必修		修(留学生)
授業形態		講義				単位の種別と単	位数	履修単位: 1	
開設学科情報工学科			学科			対象学年		3	
開設期		前期				週時間数	]数 2		
教科書/教材									
担当教員		SAPKO	OTA AC	CHYUT					
到達目標	票								
		e for the fo ear studen	reign : ts of K	students (enro OSEN. This co	olled in the third y ourse is related to	ear) so that the hardware part	y can l of the i	be familia informatio	with the contents learned by the n engineering course.
ルーブ!	ノック								
			I	deal Level	Standard Level			Unacceptable Level	
Logic Circuits				Sufficiently understand various logic circuits and their applications.		Understand various logic circuits and their applications.			Do not understand various logic circuits and their applications.
Electric Circuits				Sufficiently understand various electric circuits and can perform related calculations.		Understand various electric circuits and can perform related calculations.			Do not understand various delectric circuits and thus cannot perform related calculations.
学科の到達目標項目との関			関係						
教育方法		/							
				d the basic hardware principles and applications of information engineering. Mainly basic logic ectric circuits and their applications will be covered.					
授業の進	め方・方法			Il be focused on lecture as well as practical exercises format. The handout will be provided.					
注意点		The co	ontent d by s	nt of this course overlaps with the content of "Log second year students."			gic Cir	cuits I & I	I" and "Electric Circuits I & II"
授業の原	属性・履行	修上の区		•					
	<u> ライエー/区</u> ティブラー:					□ 遠隔授業対応			□ 実務経験のある教員による授業
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授業計画	 面								
JAANIE	<del>-</del>	週	授業	 内容			调ごと	 の到達目標	<u> </u>
	1stQ					Understand the conversion from analog to digital			
		1週	Digi	ital signals and	c operations	signals and conversion between various number systems.			
		2週	Воо	lean algebra (		Understand the basic operations of Boolean algebra and simplify the logic expressions.			
		3週	Воо	lean algebra (		Understand the basic operations of Boolean algebra, simplify the logical expressions, and also able to apply Karnaugh maps.			
		4週	Bas	ic logic and lo	gic symbols		Understand the basic logics and can express with logic symbols.		
		5週	Con	nbination of lo		Understand the combination of logical equations.			
前期		6週	Log	ic circuit conv		Able to convert a logic circuit composed of AND/OR/NOT into a NAND-only circuit or a NOR-only circuit.			
		7週		oder, encoder ers and comp	nultiplexer,	Understand the functions and configuration of encoder, decoder, multiplexer, demultiplexer, adders and comparators.			
		8週	Flip	flop and latch		Understand the principles of flip-flop and latch circuits, and their difference.			
		9週	Bas	ic Electric Circ		Understand Ohm's law, Kirchhoff's law, Direct current (DC) series and parallel circuits			
		10週	Bas	ic Electric Circ		Current and voltage calculation of complex circuiusing Ohm's law and Kirchhoff's law.			
	2ndQ	11週	AC (	Circuits (1)		Understand the basics of AC signals and components of the basic AC circuit.			
		12週	AC (	Circuits (2)		Understand impedance and admittance. Able to calculate impedance and admittance.			
		13週	Dioc	de		Understand the principle of a diode along with a LED.			
		14週	Ope	erational Ampl		Understand the principle and application of Operational Amplifiers.			
		15週	Sun	nmary		Able to explain an overview of the contents learned in this course.  Know the contents for continuous self-learning afterwards.			
		16週							
評価割る	<del></del> 今		•				•		
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総合評価割合 100							100		
Basic Proficiency 50							50		
	,							1	

Specialized Proficiency	50	50