Akashi College		Year 2023				ourse Title	Circuit Theory B	
Course	Informa	tion						
Course Code 5326					Course Categor	ry	Specialized / Compulsory	
Class For	lass Format Lecture				Credits		School Cre	edit: 1
Departme	Department Electrical an		nd Computer Engineering		Student Grade		3rd	
Term Second Sem		mester		Classes per We	ek	ek 2		
Textbook and/or Teaching Materials								
Instructor	structor SUYAMA Taikei							
Course	Objectiv	'es						
2) Unders	stand the I	Bartlett's bise	for a four-termiction theorem a lters and variou	inal network. Ind bridge T circui Is constant K filter	ts and can find t s and can find th	hem. nem.		
Rubric								
			Ideal Level	Standard Level			Unacceptable Level	
Achievem	ent 1		Can calculate the parameters for a four-terminal network.		Can use the parameters for a four-terminal network.		rs for a	Cannot use the parameters for a four-terminal network.
Achievem	ent 2			e Bartlett's rem and bridge T n design them.	Understand the Bartlett's bisection theorem and bridge T circuits and can use them.		bridge T	Do not understand the Bartlett's bisection theorem and bridge T circuits.
Achievem	ent 3		Understand the filters and varie	e definition of	Understand the definition of filters and various constant K		ion of	Do not understand the definition of filters and various
			filters and can design them.					
Assigne	d Depar	tment Obje	ectives					
Teachin	g Metho	od						
Outline Following E master the make sure			Electric Circuits II in the second year, the aim of this course is to make sure students thoroughly be basics of electrical circuits through lectures and problem exercises. The course is also intended to students learn the basic ways of thinking as an electrical and electronics technician. The first will be taught by Hosokawa, and second semester by Suyama.					
Style		the first se they will be In the seco	The class will be carried out by the instructor writing notes on the blackboard and explaining the content. In the first semester, students will do exercises every two or three classes, and in the week when they do not, they will be given a report assignment to improve their understanding.  In the second semester, there will be two problem exercises on the class content of the first half of the semester and the second half to deepen their understanding of the content of the lessons.					
Notice		Students s	hould review af	ter the weekly les	sons, and ask qu	uestion	s during th	e next class. Also, they should
Charact	eristics	•	Division in Le					
☐ Active Learning			☐ Aided by ICT ☑ Applicable t			o Remo	te Class	☐ Instructor Professionally Experienced
Course	Plan	, ,						
		Th	neme		Goals			
	3rd Quarter	1st im	troduction of a pedance paran prameters		Understand the definition of a four-terminal network, and find the impedance parameters a admittance parameters.		the impedance parameters and	
2nd Semeste r		2nd Fo	our-terminal cor		Can find a four-terminal constant.			
			H parameters and G parameters			Can find the H parameters and G parameters.		
			nadow paramet		Can find the shadow parameters.			
			arious connections of a four-terminal network			Can find various connections of a four-terminal network.		
		6th Ba	asic four-terminal circuits and bridge T circuits			Understand basic four-terminal circuits and bridge T circuits and can find them.		
		7th Pr	oblem exercise			Understand the content of weeks 1 to 6, and can find the four-terminal network parameters		
		8th Ba	artlett's bisection theorem			Understand the Bartlett's bisection theorem and can find it.		
	4th Quarter	9th Re	eactance four-terminal networks			Understand the reactance four-terminal networks.		
		10th De	efinition of filters and constant K filters			Understand the definition of filters and constant k filters and can design them.		
		11th Co	onstant K low pass filters			Understand and can design constant K low pass filters.		
		12th Co	onstant K high pass filters			Understand and can design constant K high pass filters.		
		13th Co	onstant K band		Understand and can design constant K band pass filters.			
			Problem exercise			Understand the content of weeks 9 to 14, and can analyze/design the Bartlett's bisection theorem, reactance four-terminal networks, and filters.		
			otal review			Total review		
		16th Fi	Final exam			Final exam		

Evaluation Method and Weight (%)						
	Examination (prophase) 100%	Total				
Subtotal	100	100				
Basic Proficiency	20	20				
Specialized Proficiency	80	80				
Cross Area Proficiency	0	0				