Akashi College			Year	Year 2023		C	ourse Title	Circuit Theory B	
Course	Informa	tion							
Course Co	ode	5326			Course Categor	γ	Specializ	ed / Compulsory	
Class Forr	nat	Lecture			Credits		School C	redit: 1	
Departme	ent	Electrical	and Computer E	ngineering	Student Grade		3rd		
Term		Second Se	emester		Classes per We	ek	2		
Textbook and/or Teaching Materials									
Instructor	-	SUYAMA -	Гаikei						
Course	Objectiv	es							
1) Can ca 2) Unders 3) Unders	lculate the stand the stan	e parameters Bartlett's bise definition of f	for a four-termi ection theorem a ilters 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 Standa		Standard Level			Linaccentable Level	
			Can calculate the parameters		Can use the parameters for a		ers for a	Cannot use the parameters for	
Achievement 1			for a four-term	r-terminal network. four-terminal r		network. e Bartlett's		a four-terminal network.	
Achievement 2			bisection theor circuits and car	em and bridge T n design them.	bisection theorem and bridge T circuits and can use them.		l bridge T nem.	bisection theorem and bridge T circuits.	
Achievement 3			Understand the filters and varie filters and can	e definition of ous constant K design them.	Understand the definition of filters and various constant K filters and can use them.		tion of stant K em.	Do not understand the definition of filters and various constant K filters.	
Assigne	<u>d Depa</u> r	<u>tment Obj</u>	ectives						
Teachin	g Metho								
Outline Following master th semester			J Electric Circuits II in the second year, the aim of this course is to make sure students thoroughly he basics of electrical circuits through lectures and problem exercises. The course is also intended to re students learn the basic ways of thinking as an electrical and electronics technician. The first r will be taught by Hosokawa, and second semester by Suyama.						
Style The class the first s they will In the sec semester			will be carried out by the instructor writing notes on the blackboard and explaining the content. In semester, students will do exercises every two or three classes, and in the week when they do not, be given a report assignment to improve their understanding. cond semester, there will be two problem exercises on the class content of the first half of the r and the second half to deepen their understanding of the content of the lessons.						
Notice		Students solve a lo Students	should review af of exercise prol who miss 1/3 or	ter the weekly les blems. more of classes v	sons, and ask qu vill not be eligible	uestion: e for ev	s during valuation.	the next class. Also, they should	
Charact	eristics	of Class /	Division in Le	arning					
□ Active Learning			□ Aided by ICT ☑ Applicable to			o Remo	ote Class	Instructor Professionally Experienced	
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Course	Plan								
		Т	heme			Goals			
	3rd Quarter	Ist ir	ntroduction of a four-terminal network, npedance parameters, and admittance arameters			Understand the definition of a four-terminal network, and find the impedance parameters and admittance parameters.			
2nd Semeste r		2nd F	our-terminal cor		Can find a four-terminal constant.				
		3rd F	H parameters and G parameters			Can find the H parameters and G parameters.			
		4th S	Shadow parameters			Can find the shadow parameters.			
		5th V	/arious connections of a four-terminal network			Can find various connections of a four-terminal network.			
		6th B	asic four-terminal circuits and bridge T circuits			Understand basic four-terminal circuits and bridge T circuits and can find them.			
		7th P	roblem exercise	em exercise			Understand the content of weeks 1 to 6, and can find the four-terminal network parameters		
		8th B	Bartlett's bisection theorem			Understand the Bartlett's bisection theorem and can find it.			
	4th Quarter	9th R	Reactance four-terminal networks			Understand the reactance four-terminal networks.			
		10th D	Pefinition of filters and constant K filters			Understand the definition of filters and constant k filters and can design them.			
		11th C	Constant K low pass filters			Understand and can design constant K low pass filters.			
		12th C	nstant K high pass filters		Understand and can design constant K high pass filters.				
		13th C	onstant K band pass filters			Understand and can design constant K band pass filters.			
		14th P	roblem exercise			Understand the content of weeks 9 to 14, and can analyze/design the Bartlett's bisection theorem, reactance four-terminal networks, and filters.			
		15th T	Total review			Total review			
		16th F	inal exam			Final e	xam		

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