Anan College			Year	Year 2024			Course Mathematics of Electronics Title and Information					
Course	Informa	tion										
Course Co	ode	5497E02		Course Cate		ry Specialized / Elective						
Class Format Lecture					Credits	Acad	Credit: 2					
Department Course of		Civil Engineering		Student Grade	Adv	. 2nd						
Term First Sem			ester		Classes per Week 前期:2							
Textbook Teaching	and/or Materials	Enshu to (Ouyo Bibunhouteishiki, Saiensu Sha									
Instructor Sugino Ryuzaburo												
Course Objectives												
 We can understand Furier series and its transformation, and compute of its fundamental computation. We can understand Laplace transformation and operational calsulus, and compute of its fundamental computaion. We can understand the construction method of differental equation , and compute of its fundamental problems. 												
Rubric												
			Ideal Level		Standard Level			Unacceptable Level				
Achievement 1			We can unders series an its tra apply these for problems.	stand Fourier anformations and the various	We can understand Fourier series an its tranformations and compute these for the fundamental problems.		r s and	We can understand Fourier series an its tranformations, and compute of its elementary problems.				
Achievem	ent 2		We can unders transformation operation meth these for the fu problems.	stand Laplace s and the nod and apply undamental	We can understand Laplace transformations and the operation method and compute the fundamental problems.		e npute s.	We can understand understand Laplace transformations and the operation method and compute of its elementary problems.				
Achievement 3			We can unders construction m differentail equ these for the fu problems.	stand the lethod of lation and apply undamental	We can understand the construction method of differentail equation and compute the fundamental problems.			We can understand the construction method of differentail equation and compute of its elementary problems.				
Assigned Department Objectives												
B-2 D-1												
Teachin	g Metho	d										
Outline We are to make a concentration for our class and use the knowledges and techniques about basic mathematics to construction of understanding of Fourier and Laplace transeformation and building up the solutions of ordinary and partial differential equations												
Style		Our class 1. Review 2. Lecture 3. Short e	is construction of the next three phases. the important facts from the previous class. about the new section. exercises.									
Notice Please make a good preparation and self-review. You will build up the good style to do homework of the previous class.												
Charact	eristics	of Class / I	<u>Division in Le</u>	arning	•							
Active	Learning		□ Aided by ICT		Applicable to Remote Class		Class	 Instructor Professionally Experienced 				
Course	Plan											
		Т Т	heme			Goals						
	1st Quarter	1st F	ourier Series			We can un fundament	dersta al pro	nd Fourier series and compute its blems.				
1st Semeste r		2nd F	ourier Series			We can understant series and comp		nd the applications of Fourier ute its fundamental problems.				
		3rd F	ourier Series			We can understand complex Fourier series and compute its fundamental problems.						
		4th F	ourier Series		We can understand Fourier transeformation and compute its fundamental problems.							
		5th F	ourier Series		We can understand Fourier intergrals and compute its fundamental problems.							
		6th F	ourier Analysis			We can understand the frequency analysis using Fourier transeformation and compute its fundamental problems.						
		7th F	Fourier Analysis			We can understand the Fourier analysis of differential equation and compute its fundamental problems.						
		8th M	Mid-term examination									
	2nd Quarter	9th L	aplace Transefor	rmation		We can understand Laplace transeformation and compute its fundamental problems.						
		10th L	aplace Transefor	rmation		We can understand the applications of Laplace transformation and compute its fundamental problems.						
		11th L	aplace Transeformation			We can understand the basis and dimension of subspace and compute its fundamental problems.						
		12th D	ifferential Equat	on Space	We can understand the linear mapping of vector space and compute its fundamental problems.							

		13th	Differential Equati	on and Its Functi	on Space	We can understand the change of basis and representation matrix and compute its fundamental problems.			
		14th	The Solutions of P	artial Differential	Equation	We can understand the construction method of partial differentail equation and explain of it.			
		15th	The Solutions of P	artial Differential	Equation	We can compute the fundamental applicated problems using construction method of partial differential equation's solutions.			
			Final examination						
Evaluation Method and Weight (%)									
	E	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal		50	0	0	0	40	0	100	
Basic Proficiency		30	0	0	0	20	0	50	
Specialized Proficiency		20	0	0	0	10	0	30	
Cross Area Proficiency		10	0	0	0	10	0	20	