Anan College		Year 2024							
Course	Informa	tion							
Course Co	ode	5597E02			Course Category	y Specialize	Specialized / Elective		
Class For				Credits		Academic	Credit: 2		
Departme	Department Course of App			pplied Chemical Engineering		Adv. 2nd			
Term		First Semes	ster		Classes per Wee	ek 前期:2	前期:2		
Textbook Teaching		Enshu to O	uyo Bibunhoute	eishiki, Saiensu Sh	าล	•			
Instructor	r	Sugino Ryu	ızaburo						
Course	Objectiv	es							
2. We car	n understa	nd Laplace tra	ansformation ar	formation, and cond operational cals of differental equa	sulus, and compu	ite of its fundan	nental computaion.		
Rubric									
			Ideal Level		Standard Level		Unacceptable Level		
Achievement 1			We can understand Fourier series an its tranformations and apply these for the various problems.		We can understand Fourier series an its tranformations and compute these for the fundamental problems.		We can understand Fourier series an its tranformations, and compute of its elementary problems.		
Achievement 2			We can understand Laplace transformations and the operation method and apply these for the fundamental problems.		We can understand Laplace transformations and the operation method and compute the fundamental problems.		We can understand understand Laplace transformations and the operation method and compute of its elementary problems.		
Achievement 3			We can understand the construction method of differentail equation and apply these for the fundamental problems.		We can understand the construction method of differential equation and compute the fundamental problems.		We can understand the construction method of differentail equation and compute of its elementary problems.		
Assiane	d Depar	tment Obje	ctives						
B-2 D-1									
	ng Metho								
Outline	ig i lecile	We are to r	cs to constructi	ion of understandi	ng of Fourier and		echniques about basic formation and building up the		
Style solutions of ordinary and partial differential equations. Our class is construction of the next three phases. 1. Review the important facts from the previous class. 2. Lecture about the new section. 3. Short exercises.									
Notice		Please mak	e a good prepa	aration and self-re I style to do home	view. work of the previ	ous class.			
Charact	eristics	of Class / D	ivision in Le	arning					
□ Active	Learning	·	☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced		
Course	Plan	T T							
	<u> </u>	Th	eme			Goals			
	1st Quarter	1st Fo	urier Series			We can understand Fourier series and compute its fundamental problems.			
		2nd Fo	ourier Series			We can understand the applications of Fourier series and compute its fundamental problems.			
		3rd Fo	urier Series			We can understand complex Fourier series and compute its fundamental problems.			
1st Semeste r		4th Fo	urier Series				e can understand Fourier transeformation and mpute its fundamental problems.		
		5th Fo	urier Series			e can understand Fourier intergrals and ompute its fundamental problems.			
		6th Fo	urier Analysis		F	We can understand the frequency analysis using Fourier transeformation and compute its fundamental problems.			
		7th Fo	Fourier Analysis			We can understand the Fourier analysis of differential equation and compute its fundamental problems.			
		8th Mi	Mid-term examination						
		9th La	place Transefo	rmation		We can understand Laplace transeformation and compute its fundamental problems.			
1							e can understand the applications of Laplace ansformation and compute its fundamental		
	2nd	10th La	place Transefo	rmation	\ t	We can understansformation appropries.	and the applications of Laplace and compute its fundamental		
	2nd Quarter		place Transefoi place Transefoi		\ t	transformation a problems. We can underst	and the applications of Laplace and compute its fundamental and the basis and dimension of ompute its fundamental problems.		

		13th	Differential Equat	ion and Its Func	We can understand the change of basis and representation matrix and compute its fundamental problems.				
		14th The Solutions of Partial Differential Equation				We can understand the construction method of partial differentail equation and explain of it.			
		15th	The Solutions of F	Partial Differentia	We can compute the fundamental applicated problems using construction method of partial differential equation's solutions.				
		16th	Final examination						
Evaluati	on Me	ethod and \	Weight (%)						
		Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal		60	0	0	0	40	0	100	
Basic Proficiency	y	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	