Oyama College			Year 2022		Course Title	Control Engineering						
Course	Informa	tion				·	•					
Course Co	ode	0095			Course Category Specialized		ed / Elective					
Class Format Lecture					Credits	School C	edit: 2					
Department Departmer			nt of Mechanical Engineering		Student Grade 5th							
Term Year-round					Classes per Week 2							
Textbook Teaching	and/or Materials											
Instructor	ſ	MD ABDU	S SAMAD KAMA	_								
Course Objectives												
Rubric												
			Ideal Level		Standard Level		Unacceptable Level					
Achievement 1												
Achievement 2												
Achievem	ient 3											
Assigne	d Depar	tment Obj	ectives									
学習・教育 JABEE (c)	F到達度目樹) JABEE (C	票 ③)										
Teachin	g Metho	d										
Outline												
Style												
Notice												
Charact	eristics	of Class /	<u> Division in Le</u>	arning	1		- 1					
Active Learning			□ Aided by ICT		□ Applicable to	o Remote Class	ss Instructor Professionally Experienced					
Course	Plan											
		Т	Theme C			Goals						
	1st Quarter	1st I	ntroduction to control engineering									
		2nd I	ntroduction to the mathematical modeling									
		3rd T	ransfer function model of basic elements									
		4th E	lock diagram and the reduction techniques									
		5th E	asic response of dynamical systems									
		6th C	haracteristics of	transient respons	e							
		7th s	voles of the trans ystem	ter function and s	tability of the							
1st Semeste		8th N	idterm test									
r	2nd Quarter	9th E	xam commentar	У								
		10th 5	teady state performance of control system.									
		11th F	D controller design									
		12th C	Control system de	esign - root locus,	compensator							
		13th F	requency response									
		14th E	ode plot design									
		15th N	yquist Stability Criteria									
		16th T	The first-term exam									
	3rd Quarter	1st E	Exam commentary and review of classical control									
		2nd I	atroduction to modern control system									
		3ru 5	alationship of state space and transfer function									
		5th F	elationship of state-space and transfer function									
		6th	omplete solution of a state-space equation									
		7th S	tability of state-space model									
2nd		8th N	lidterm test									
Semeste	4th Quarter	9th E	xam commentary									
		10th C	ontrollability and state feedback control									
		11th F	eedback control	eedback control design for Regulator								
		12th C	bservability and	observer design								
		13th C	bserver and out	put feedback cont	rol							
		14th T	racking control with state feedback									
		15th C	ptimal Regulato	r –								
		16th T	he second term	exam								
Evaluat	ion Meth	od and W	eight (%)									

	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0