Oyama College		Year	Year 2022			ourse Title	Control Engineering			
Course	Informa	tion								
Course Co		0095			Course Category		Specialized / Elective			
Class Format Lecture		Lecture			Credits		School Credit: 2			
		Departme	ent of Mechanica	Student Grade 5th						
Term Year-round			nd		Classes per Week 2		2			
Textbook	and/or									
Teaching		MD ABDI	IC CAMAD KAMA	<u> </u>						
Instructor			JS SAMAD KAMA	<u>L</u>						
	<u>Objectiv</u>	es								
Rubric					To: 1 11 1					
A de income and d			Ideal Level		Standard Level			Unacceptable Level		
Achievement 1 Achievement 2			+							
Achievement 3										
		tment Ob	iectives	ctives						
	到達度目標		jectives							
	JABEE (C									
Teachin	g Metho	d								
Outline										
Style										
Notice										
Charact	eristics o	of Class /	Division in Le	arning						
☐ Active	Learning		☐ Aided by IC	☐ Applicable t	o Remo	ote Class	☐ Instructor Professionally			
					7 Applicable to Remote ela			Experienced		
Course	Dlan									
Course	Piaii		Thoma			Coole				
	1st Quarter		Theme			Goals				
			ntroduction to control engineering ntroduction to the mathematical modeling							
			ransfer function model of basic elements							
		 	lock diagram and the reduction techniques							
			Basic response of dynamical systems							
			Characteristics of transient response							
			oles of the transfer function and stability of the							
1st			ystem							
Semeste	2nd Quarter		lidterm test							
			xam commentary teady state performance of control system.							
			ID controller design							
			ontrol system design - root locus, compensator							
			requency response							
			Bode plot design							
			Nyquist Stability Criteria							
		16th	The first-term exam							
	3rd Quarter	1st F	Exam commentary and review of classical control							
		2nd 1	ntroduction to modern control system							
			States space equations of dynamical systems							
			Relationship of state-space and transfer function							
			Basic solution of a state-space equation							
			Complete solution of a state-space equation							
2nd			itability of state-space model fidterm test							
Semeste			xam commentary							
r	4th Quarter		ontrollability and state feedback control							
			eedback control design for Regulator							
				bservability and observer design						
				bserver and output feedback control						
			racking control with state feedback							
		15th (Optimal Regulator							
		16th	The second term	exam						
Evaluati	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