

Oyama College		Year	2024		Course Title	Applied Science	
Course Information							
Course Code	0011		Course Category		Specialized / Elective		
Class Format	Lecture		Credits		Academic Credit: 2		
Department	Advanced Course of General Engineering		Student Grade		Adv. 1st		
Term	Second Semester		Classes per Week		2		
Textbook and/or Teaching Materials	機構学の「しくみ」と「基本」, 小峯龍男著, 技術評論社(in Japanese)						
Instructor	MASUYAMA Tomoya						
Course Objectives							
1. Able to explain about mechanisms for realize objective motion.(A, d-1, g)							
2. Able to express position and velocity of body by formula and drawing.(A, d-1, g)							
Rubric							
	Ideal Level		Standard Level		Unacceptable Level		
Achievement 1	Able to express link motions. Alternative solution also can be expressed.		Able to express link motions.		Unable to express link motions.		
Achievement 2	Able to express position and velocity of body by formula and drawing.		Able to express position of body by formula and drawing.		Unable to express position and velocity of body by formula and drawing.		
Assigned Department Objectives							
JABEE (A) JABEE (d-1) JABEE (g)							
Teaching Method							
Outline							
Style							
Notice							
Characteristics of Class / Division in Learning							
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input type="checkbox"/> Applicable to Remote Class		<input type="checkbox"/> Instructor Professionally Experienced	
Course Plan							
			Theme	Goals			
2nd Semester	3rd Quarter	1st	Mechanisms				
		2nd	Linear motion and rotational motion				
		3rd	Instant center of rotation				
		4th	Pair				
		5th	Link mechanisms				
		6th	Link motion				
		7th	Link motion				
		8th	Intermediate examination				
	4th Quarter	9th	Cam mechanisms				
		10th	Cam motion				
		11th	Friction drive mechanisms				
		12th	Friction drive mechanisms				
		13th	Gear				
		14th	Gear				
		15th	Gear				
		16th	Examination				
Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	70	0	0	0	0	30	100
Basic Proficiency	70	0	0	0	0	30	100
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0