Oyama College			lege	Year	r 2022		Course Title	Molecular Structure		
Course Information										
Course Co	ode		0009			Course Categor	/ Specializ	Specialized / Elective		
Class Format			Lecture			Credits	Academ	Academic Credit: 2		
Department			Advanced Course of Materials Chemistry and Bioengineering			Student Grade	Adv. 1st	Adv. 1st		
			First Seme	ster		Classes per Wee	ek 2			
Textbook and/or Teaching Materials										
Instructor SAKAI Hiroshi										
Course Objectives										
Rubric										
				Ideal Level		Standard Level		Unacceptable L	Unacceptable Level	
Achievement 1										
Achievement 2										
Achievement 3										
Assigned Department Objectives										
学習・教育到達度目標 ④ JABEE (A) JABEE (d-1)										
Teaching Method										
Outline										
Style										
Notice										
Characteristics of Class / Division in Learning										
☐ Active Learning				☐ Aided by IC	Т	☐ Applicable to Remote Class		☐ Instructor Professionally Experienced		
Course Plan										
Theme						Goals				
1st Semeste r		1	lst Bohr model							
		2	nd W	d Wave-particle duality						
			rd So	Schrödinger equation						
	1st			chrödinger equation						
	Quarte	⊢		Fundamentals of Quantum Chemistry						
				Schrödinger equation in three dimensions						
		_		lydrogen atom						
				ixam						
	1			Hydrogen atom						
				Many-electron atoms						
				lydrogen molecular ion						
	2nd Quarte			Homonuclear diatomics						
	Quu. cc	_ ⊨=		Heteronuclear diatomics						
				Vibrational spectroscopy Rotational spectroscopy						
				Exam						
Evaluation Method and Weight (%)										
		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	