Oyama College			lege	Year	2022		Course Title	Molecular Structure		
Course Information										
Course Co	ode		0009			Course Categor	y Specializ	pecialized / 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	eek 2			
Textbook and/or Teaching Materials										
Instructor   SAKAI Hiroshi										
Course Objectives										
Rubric										
				Ideal Level		Standard Level		Unacceptable Lo	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										
Charact	eristic	s of	Class / L	<u> Pivision in Le</u>	arning	_		T		
☐ Active Learning				☐ Aided by IC	Т	☐ Applicable to Remote Class		☐ Instructor Professionally Experienced		
				<u> </u>		I		12/10/10/1004		
Course Plan										
Theme Goals										
1st Semeste r		1	st Bohr model							
		2	nd Wave-particle duality							
			ord Sc	Schrödinger equation						
	1st			chrödinger equation						
	Quarte	⊢		Fundamentals of Quantum Chemistry						
				Schrödinger equation in three dimensions						
				lydrogen atom						
				xam						
	1			Hydrogen atom  Many-electron atoms						
				lydrogen molecular ion						
				Iomonuclear diatomics						
	Quarte			Heteronuclear diatomics						
				/ibrational spectroscopy						
				Rotational spectroscopy						
	I —		.6th E>	· · · · · · · · · · · · · · · · · · ·						
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	