Tsuyama College		Year 2021			Course Title	Experiments in Chemistry		
Course	Informa	tion						
Course Co	ode	0065			Course Category	y Specializ	ed / Compulsory	
Class Format Experime		Experiment			Credits	School C	edit: 1	
Department Depart Technol		Department Technology	of Integrated Advanced Scie	Science and ence Program	Student Grade	4th		
Term First Sem			ter		Classes per Wee	ek 2		
Textbook		Reference b	ook: K.L. Willia	amson. Microscale	organic Chemis	try Experiment	s (Maruzen)	
Teaching Instructor				Kazuaki,MORITC		.,	- (( )	
	Objectiv		<u>5</u>					
To deepe	n students	' knowledge of	f physical chemexperimental sk	nistry, inorganic c	nemistry, analytic	cal chemistry, a	and organic chemistry through	
· ·	inco ana co	acquire sona c	experimental si	(III).				
Rubric			Ideal Level		Standard Level		Unacceptable Level	
			Be able to perform experiments				опассерсавіе Levei	
Achievement 1			and make accu measurements	rate in physical prepare reports	Be able to perform physical chemistry experiments with precision and write accurate reports.		The student cannot write a report at the minimum level.	
Achievement 2			n inorganic/an	orm experiments alytical chemistry and accuracy and s with correct	Be able to perform experiments in inorganic and analytical chemistry and prepare reports with correct sentences.		The student cannot write a report at the minimum level.	
Achievement 3			Be able to perfo purification and analysis of typichemical reacti- report based or	I structural cal organic cal organic ons, and write a	Be able to follow the example of synthesis, purification and structural analysis of typical organic reactions, and write a report with correct text based on the results obtained.		The student cannot write a report at the minimum level.	
Assigne	d Depar	tment Obje	ctives					
Teachin	g Metho	d						
Outline		Basic exper and student them.	iments in physics are required	ical chemistry, inc to organize and a	organic/analytical analyze the result	chemistry, and s of these expe	d organic chemistry are conducted, riments and to write a report on	
Style			e divided into quents in turn.	groups on the the	mes presented in	the class. Stud	dents must take turns to complete	
Notice		This is a cou	mpulsory subje and acquire c	ect. Students mus redits to complete	t complete the co the course.	ourse (absent fo	or less than 1/5 of the scheduled	
Charact	eristics o	of Class / Di	vision in Lea	arning				
☐ Active Learning			□ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced	
Course	Dlan							
Course	rian 				T.	Coals		
	-	l lue	eme			Goals Understand the	precautions to be taken in order	
	1st Quarter 2nd Quarter	1st Gui	dance, Safety	Training	Į t		experiment safely and make it	
		2nd Org	ganic Chemistry	y Experiment 1	] 1 1	Be able to perforeliably. Be able results obtained	orm experiments correctly and e to organize and analyze the d and prepare reports.	
		3rd sar	ne as above			same as above		
		4th Org	ganic Chemistry	y Experiment 2		same as above		
			ne as above			same as above		
1st Semeste r			ganic Chemistry	y Experiment 3		same as above		
			ame as above			same as above		
			Reserve Day					
			Physical Chemistry Experiment 1			same as above		
			ame as above			same as above		
			hysical Chemistry Experiment 2			same as above		
			ame as above			same as above		
			norganic and analytical chemistry experiments			same as above		
			ame as above			same as above		
			eserve Day					
			mmary, equipn aning.	nent inspection, a	nd general	same as above		
Evaluati	ion Meth	od and Wei	ght (%)					

	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	0	0	0	0	100	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	100	100
Cross Area Proficiency	0	0	0	0	0	0	0