Akashi College			Year 2022		Course Title	Science III B					
Course Information											
Course Code 4306				Course Categor	y Genera	I / Compulsory					
Class Format Lecture					Credits	School	Credit: 2				
Department Mechanica			al Engineering		Student Grade	3rd					
Term Year-round			nd	d		ek 2					
Textbook Teaching	and/or Materials										
Instructor INOUE Tsutomu											
Course Objectives											
1. Can ex 2. Can ex 3. Can ex 4. Can ex	plain and o plain and o plain and o plain and o	calculate the calculate the calculate the calculate the calculate the	basic matters re basic matters re basic matters re basic matters re	elated to the condi elated to chemical elated to inorganic elated to organic s	tions of substand reactions. substances. ubstances.	ces.					
Rubric											
			Ideal Level		Standard Level		Unacceptable Level				
Achievement 1			Can fully and a and calculate t related to the c substances.	Can explain and basic matters recording to the conditions of substances.		l calculate the elated to the bstances.	Cannot explain and calculate the basic matters related to the conditions of substances.				
Achievement 2			Can fully and a and calculate t related to cher	ccurately explain he basic matters nical reactions.	Can explain and calculate the basic matters related to chemical reactions.		Cannot explain and calculate the basic matters related to chemical reactions.				
Achievement 3			Can fully and a and calculate t related to inorg	ccurately explain he basic matters ganic substances.	Can explain and calculate the basic matters related to inorganic substances.		Cannot explain and calculate the basic matters related to inorganic substances.				
Achievement 4			Can fully and a and calculate t related to orga	Can fully and accurately explain and calculate the basic matters related to organic substances.		l calculate the elated to organ	Cannot explain and calculate the basic matters related to organic substances.				
Assigne	d Depar	tment Ob	ectives								
Teachin	g Metho	d									
Outline The objectives of this course is to gain a basic knowledge of chemicals, and to develop scientific thinking skills											
Style		Regular c	lasses will be tau	ight in a lecture st	yle, and there w	ill also be exp	eriments in some weeks.				
Notice		We hope around us CBT may * Liaison: Students	that by observing their everyday lives scientifically, students will recognize that chemistry is all be done on a substitute date. Ogasawara who miss 1/3 or more of classes will not be eligible for a passing grade								
Charact	eristics of	of Class /	Division in Le	arning			J				
Active Learning			□ Aided by ICT		☑ Applicable to	to Remote Class					
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Course	Plan										
		1	heme			Goals					
	1st Quarter	1st C	Conditions of substances 1			Can explain and calculate the basic matters related to the conditions of substances.					
		2nd C	Conditions of sub		Can explain and calculate the basic matters related to the conditions of substances.						
		3rd C	Conditions of substances 3			Can explain and calculate the basic matters related to the conditions of substances.					
		4th C	Chemical reaction and energy 1			Can explain and calculate the basic matters related to chemical reactions and energy.					
		5th C	Chemical reaction and energy 2			Can explain and calculate the basic matters related to chemical reactions and energy.					
1st Semeste r		6th C	Chemical reaction and energy 3			Can explain and calculate the basic matters related to chemical reactions and energy.					
		7th C	Chemical reaction and energy 4			Can explain and calculate the basic matters related to chemical reactions and energy.					
		8th S	Summary of the 1st Q			Can explain and calculate the basic matters learned in the 1st Q.					
	2nd Quarter	9th C	Conditions of substances / Chemical reaction and energy Summary			Can explain and calculate the basic matters related to the conditions of substances, chemical reactions, and energy.					
		10th F	Reaction rates and equilibrium 1			Can explain and calculate the basic matters related to reaction rates and equilibrium.					
		11th F	Reaction rates and equilibrium 2			Can explain and calculate the basic matters related to reaction rates and equilibrium.					
		12th F	Reaction rates and equilibrium 3			Can explain and calculate the basic matters related to reaction rates and equilibrium.					
		13th F	Reaction rates an	d equilibrium 4		Can explain and calculate the basic matters related to reaction rates and equilibrium.					

		14th	Reaction rates and equilibrium 5		Can explain and calculate the basic matters related to reaction rates and equilibrium.					
		15th	Reaction rates and equilibrium 6		Can explain and calculate the basic matters related to reaction rates and equilibrium.					
		16th	Final exam							
2nd Semeste r	3rd Quarter	1st	Reaction rates and equilibrium Sum	imary	Can explain and calculate the basic matters related to reaction rates and equilibrium.					
		2nd	Inorganic substances 1		Can explain and calculate the basic matters related to inorganic substances.					
		3rd	Inorganic substances 2		Can explain and calculate the basic matters related to inorganic substances.					
		4th	Inorganic substances 3		Can explain and calculate the basic matters related to inorganic substances.					
		5th	Inorganic and organic substances 1		Can explain and calculate the basic matters related to inorganic and organic substances.					
		6th	Inorganic and organic substances 2		Can explain and calculate the basic matters related to inorganic and organic substances.					
		7th	Inorganic and organic substances 3	1	Can explain and calculate the basic matters related to inorganic and organic substances.					
		8th	Summary of the 3rd Q		Can explain and calculate the basic matters learned in the 3rd Q.					
	4th Quarter	9th	Organic substance 1		Can explain and calculate the basic matters related to organic substances.					
		10th	Organic substance 2		Can explain and calculate the basic matters related to organic substances.					
		11th	Organic substance 3		Can explain and calculate the basic matters related to organic substances.					
		12th	Organic substance 4		Can explain and calculate the basic matters related to organic substances.					
		13th	Organic substance 5		Can explain and calculate the basic matters related to organic substances.					
		14th	Organic substance 6		Can explain and calculate the basic matters related to organic substances.					
		15th	CBT chemistry							
		16th	Final exam							
Evaluation Method and Weight (%)										
			Examination	Report · Little test · Task		Total				
Subtotal			60	40		100				
Basic Proficiency			60	40		100				
Specialized Proficiency			0	0		0				
Cross Are	a Proficien	су	0	0		0				