Toyama College			Year 2022		Course Title	ourse Basic Electronics and Title Computer Engineering						
Course Information												
Course Code 0003					Course Category	y Specializ	ed / Compulsory					
Class Forr	Class Format Lecture				Credits	School C	redit: 1					
Department E		Departmer Engineerin	Department of Electronics and Computer Engineering		Student Grade	1st	1st					
Term	17	Second Se	Semester		Classes per Wee	k 2						
Teaching	and/or Materials	精選電気基礎	礎(実教出版), 精選電気基礎演習ノート(実教出版)									
Instructor	-	Yamaguchi										
Course Objectives												
 Understand the electricity (Ohm's law, Kirchhoff's law, etc.) correctly. Understand the calculate the basic quantities related to electricity. Understand the magnetism (Coulomb's law concerning magnetism, etc.) correctly. 												
Rubric												
			Ideal Level		Standard Level		Unacceptable Level					
Achievement 1			Can Understand the basic matters concerning electricity almost perfectly.		Can Understand the basic matters concerning electricity correctly.		Can't Understand the basic matters concerning electricity correctly.					
Achievem	ent 2		Can Understand the calculation method of basic quantities concerning electricity almost perfectly.		Can Understand the calculation method of basic quantities concerning electricity correctly.		Can't Understand the calculation method of basic quantities concerning electricity correctly.					
Achievement 3			Can Understand the basic matters concerning magnetism almost perfectly.		the basic ing magnetism	Can't Understand the basic matters concerning magnetism correctly.						
Assigne	d Depar	tment Obje	ctives									
ディプロマ	?ポリシー :	L										
Teachin	g Metho	d										
Outline Understand the explanation of basic electrical phenomena and the correct treatment of various later mathematical methods. In parallel with classroom lectures, students are given an interest in elect through displays and demonstrations using electrical test equipment, etc., and are given an explain individual cases that are overflowing with home and social life.												
Style Basic technology related to the basics of electricity shall be provided. Lectures by teachers a conducted Experiments and simulations shall be incorporated to make the lectures visually.												
Notice		In this sub evaluation	ect, units are r of less than 50	ecognized based of points may take t	on an evaluation on the confirmatory e	of 50 points or examination up	more. Those who have an oon their request.					
Charact	eristics of	of Class / D	ivision in Le	arning		•						
 ☑ Active Learning 			☑ Aided by ICT ☑ Applicable to		Remote Class	 Instructor Professionally Experienced 						
Course	Plan	, <u> </u>			1							
		Tł	eme		(Goals						
	3rd Quarter	1st Ele	ectron and curr	ent	l	Understand the transfer and current of free electrons.						
2nd Semeste r		2nd DO	C circuit calculat	tion	l s r	Inderstand the series connection esistance of particular testion of the particular testion of testion o	erstand the calculation methods such as the es connection of resistors, the combined stance of parallel connected circuits.					
		3rd Se	rial parallel circuit calculation			Understand the calculation method of the combined resistance.						
		4th Ki	chhoff's law 1			Jnderstand the Kirchhoff's law can be used to explain the formulation of simultaneous equations or circuits.						
		5th Ki	chhoff's law 2	ff's law 2			Jnderstand the Kirchhoff's law can be used to explain the construction of the simultaneous equations and the direction of the current in the circuit.					
		6th Re	sistance of the conductor			Inderstand the resistance of a conductor depends in the material and shape of the material.						
		7th Va	irious resistance			Jnderstand the Various shapes and types of esistors.						
		8th Mi	id-term exams									
	4th Quarter	9th Ele	ectricity and power consumption			Understand the meaning of electric power and electric power consumption.						
		10th Cu	Irrent Heating and Thermoelectric			Understand the heating effect of electric current.						
		11th Ma	agnet and magnetic			Understand the force acting between the poles.						
		12th Co	ulomb's law of magnetism			Understand the Coulomb's law of magnetism.						
		13th Ma	agnetic induction and magnetic shielding		Inderstand the action of magnets to magnetize							
		14th M:	agnetic flux and flux density			Jnderstand the meaning of magnetic flux.						
		15th Fir	nal exam		F	inal exam	am					
		16th Re	eturn the final exam			Return the final exam						

Evaluation Method and Weight (%)												
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total					
Subtotal	100	0	0	0	0	0	100					
Basic Proficiency	100	0	0	0	0	0	100					
Specialized Proficiency	0	0	0	0	0	0	0					
Cross Area Proficiency	0	0	0	0	0	0	0					