Toyama College		Year 2022			Course Advanced Experiments				
Course	Informa	tion							
Course Co		0022			Course Categor	ry Specialized / Compulsory			
Class For	ass Format Experiment / Practical training			Credits	Academ	Credit: 2			
Departme	epartment Control Information Systems Engineering Course			ms Engineering	Student Grade	Adv. 1s	t		
Term Second Semester					Classes per Week 2				
Textbook Teaching	and/or Materials								
Instructor	<u>r</u>	Tsukada A	kira,Ito Nao,Miz	zumoto Iwao,Aso	Tsukasa,Yoshii Y	otsumi otsumi			
	Objectiv								
is possible	challenges e to summ	, it is possible parize and pul	e to understand blish the acquire	technical expertised technical knowle	e and evaluatior edge.	n methods for t	he development of systems. And, it		
Rubric			I		la				
			Ideal Level of Achievement (Very Good)		Standard Level of Achievement (Good)		nt Unacceptable Level of Achievement (Fail)		
Have a de	esign capa problem.	bility to	Utilizing science and information respond to the	demands of wide perspective	Have specialized technologies that can meet the demands of society.		Do not have technology that meets the demands of society.		
Have the PJ.	ability to բ	perform the	the constraint	ne person can advance the PJ in and express the n and express it.	The team or th proceed with P. within the limit	J systematically	The team or the person cannot proceed systematically with PJ within the limits.		
	y to resolv ne results o	re issues and of the	The background and purpose of the problem, including the trends in the relevant areas, can be understood and easily explained to others.		The background and purpose of the problem are almost understood, and it can be explained easily to the others.		background or purpose of the problem, and cannot explain it		
		tment Obj							
ディプロマ JABEE C2	アポリシー(ˈ	C-2							
Teachin	g Metho	od							
Outline Through the experiments, the expertise of electronics and information technology will be enhance our ability to build systems through our tasks.									
Style		Experimer	nts are conducte	s are conducted on 5 themes.					
Notice		•		res more than 60 p	ooints.				
Charact	eristics (of Class / [<u>Division in Le</u>	arning	ı				
□ Active	Learning		☐ Aided by ICT		☐ Applicable to Remote Class		Instructor Professionally Experienced		
Course	Plan								
	Theme				Goals				
	3rd Quarter	1st D	eep learning pro	ogramming 1		To be able to set up a development environment and execute a sample program for deep learning (recognition of handwritten numbers).			
		2nd D	eep learning pro	ogramming 2		Set up a problem that can be solved by deep learning in a team, and create a learning prografor it.			
		3rd D	eep learning pro	ogramming 3		Improve the learning program and discuss the results obtained.			
		4th A	nalysis of data a nethod 1	analysis using stati	istical analysis	The statistical analysis method can be explained.			
			nalysis of data a nethod 2	analysis using stati	istical analysis	A statistical analysis method can be used to perform basic data analysis.			
2nd		6th A	nalysis of data a nethod 3	analysis using stati	istical analysis	The statistical analysis method can be used to analyze the application data.			
Semeste r		7th H	ands-On Experi	ence with IoT Dev	ices 1	An IoT device can be explained.			
		8th H	ands-On Experi	ence with IoT Dev	ices 2	You can experiment with the basic features of an IoT device.			
	4th Quarter	9th H	ands-On Experi	ence with IoT Dev	ices 3	You can experiment with the application functionality of an IoT device.			
		10th Pl	hase sensitive amplifier training			The phase sensitive amplifier can be explained.			
		11th Si	imulation of the ne noise	simulation of sign	als buried in	Signal detection in the noise is possible.			
		12th T	raining of weak	signal detection sy	ystems	Detection of a weak signal is possible.			
		13th D	ata collection ar evice 1	nd analysis exercis	se of sensing	The sensing device and the data collection can be explained.			
			ata collection ar evice 2	nd analysis exercis	e of sensing	The experiment of element technology concerning sensing devices and data collection can be carried out.			

	15th	Data collection and analysis exercise of sensing device 3			The sensing device and the data collection system can be constructed.					
	16th Occasional date									
Evaluation Method and Weight (%)										
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total			
Subtotal	0	100	0	0	0	0	100			
Basic Ability	0	0	0	0	0	0	0			
Technical Ability	0	100	0	0	0	0	100			
Interdisciplinar y Ability	0	0	0	0	0	0	0			