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		Can carry out exercises by working together as a group Ca while encouraging other w		n carry out exercises by orking together as a group.		Cannot carry out exercises by working together as a group.			
	circuit diagram	Fully understand the electrical circuit diagrams, and the functions and action of each component.		Understand the electrical circuit diagrams, and the functions and action of each component.					
	methods and i machine tools	machining centers through NC		Understand the operation and importance of NC machine tools such as machining centers through NC programming.		Do not understand the operation and importance of NC machine tools such as machining centers through NC programming.			
	Fully understa	nd the control of n the production	Understand the control of robots through the production of line trace robots.			Do not understand the control of robots through the production of line trace robots.			
Assigned Department O	bjectives								
学習・教育到達度目標 (G)									
Teaching Method									
In this course, we will further pursue basic exercises and do applied exercises. The goals is to understand basic technology through the organic relationship between processing theory and practice, develop work processes for rational work, and develop creative abilities.									
Style Style Style Students will split into six groups and carry out different assignments in turn. In addition, we will go on a factory tour to deepen knowledge of production methods.									
In exercises, students may be concerned with the shape of the product, its appearance, and the progress of other groups. Always keep the purpose in mind, try to work correctly, and try to grasp the essential things. Students who miss 1/3 or more of classes will not be eligible for a passing grade.									
Characteristics of Class	/ Division in Le	earning	_						
☐ Active Learning	☐ Aided by I	СТ	☑ Applicable to	Rem	ote Class	☐ Instructor Professionally Experienced			
Course Plan	Th own -			Carl					
	Theme			Goals	ota o d 41	Impulados ef alastrissis in in			
1st	Sequence basic e	equence basic exercise I-1(Kato)		Understand the knowledge of electrical circuit diagrams and the functions and action of each component.					
2nd	Sequence basic e	equence basic exercise I-2(Kato)			Understand the knowledge of electrical circuit diagrams and the functions and action of each component.				
2nd Semeste r 3rd Quarter 3rd	Sequence basic e	equence basic exercise II-1(Kato)			Understand the function, action, etc. of each component by integrating them into an actual circuit, and understand a more applied circuit.				
4th	Sequence basic e	equence basic exercise II-2(Kato)			Understand the function, action, etc. of each component by integrating them into an actual circuit, and understand a more applied circuit.				
5th	NC exercise III-1	C exercise III-1(Kato)			Understand NC programming through the assignments.				

		6th	NC exercise	III-2(Kato)		Understand NC programming through the assignments.					
		7th	NC exercise IV-1(Kato)			Can process automatically using the program created.					
		8th	Report writing			Accurately summarize the knowledge and techniques acquired in the exercises.					
		9th	NC exercise IV-2(Kato)			Can process automatically using the program created.					
		10th	Robot assembly exercise I-1(Sekimori)				Can assemble a line trace robot				
		11th	Robot assembly exercise I-2(Sekimori)			Can assemble a line trace robot					
	4th	12th	Robot assembly exercise II-1(Sekimori)			Can adjust various sensors and improve the performances.					
	Quarter	13th	Robot assembly exercise II-2(Sekimori)			Can adjust various sensors and improve the performances.					
		14th	Factory tour				A tour of the actual production site will allow better understanding of production.				
		15th	Report writing			Accurately summarize the knowledge and techniques acquired in the exercises.					
		16th	No final exam								
Evaluation Method and Weight (%)											
E		Examin		Report	The work		Behavior	Total			
Subtotal (0		60	20		20	100			
Basic Proficiency		0		0	0		0	0			
Specialized Proficiency		0		60	20		20	100			
Cross Area Proficiency		0		0	0		0	0			