Akashi College			Year 2023		_	Course Practice on Mechanical Engineering II A			
Course	Informa	tion	<u>.</u>	·		•			
Course Co	ode		Course Category Specialized			l / Compulsory			
Class Forr	nat	Practical	training		Credits		School C	dit: 1	
Departme	nt	Mechani	Mechanical Engineering				2nd		
Term		First Ser	nester		Classes per We	s per Week 2			
Textbook Teaching	Materials	1/4-7-011	- L L: 011140	T.O					
Instructor			Fakahiro,OHMOR	I Shigetoshi,SHI Fe	enghui				
(2) Can u (3) Can re (4) Can c (5) Can a (a) engine. (a) (c)	arry out ex se the equ eport in wi arry out ex cquire bas Understar Understar	kercises basipment and iting, orally kercises by ic knowled and the type and how NC	d devices correct	er as a group. nechanical engineer ons of engines, and ork and can create	can use hand to an NC program.			disassemble and assemble an uits, and operate robots.	
Rubric					lo				
Achievement 1			Ideal Level Can fully carry out exercises based on the instructions and procedures provided.		Standard Level Can carry out exercises based on the instructions and instructions provided.		nd	Unacceptable Level Cannot carry out exercises based on the instructions and instructions provided.	
Achievement 2			Can use equipment and devices sufficiently and correctly.		Can use equipment and devices correctly.				
Achievement 3				Can report sufficiently in writing, orally, etc. Can report in writing etc.		riting,	orally,	Cannot report in writing, orally, etc.	
			Can carry out working toget while encouramembers.	her as a group		n carry out exercises by rking together as a group.		Cannot carry out exercises by working together as a group.	
			constructions of engines, and can use hand tools correctly to disassemble and assemble an		Understand the types and constructions of engines, and can use hand tools correctly to disassemble and assemble an engine.		nes, and prrectly to	Do not understand the types and constructions of engines, and cannot use hand tools correctly to disassemble and assemble an engine.	
				ow NC machine d can create an	Understand how NC machin tools work and can create a NC program.			Do not understand how NC machine tools work and cannot create an NC program.	
			Understand the of various modessemble modes and operate r	Understand how to control various motors, and can assemble motor driver circuits, and operate robots.			Do not understand how to control various motors, and cannot assemble motor driver circuits, and operate the robot.		
		tment Ob	jectives						
Teachin Outline	g Metho	Deepen	basic exercises a	and provide applied cessing theory and	exercises. Unde	erstand op wor	basic ted	chnology through the organic es for rational work, and develop	
		creative We will d	bilities. arry out basic exercises after safety education, For basic exercises, students will split into six groups out different assignments in turn.						
Style		and carr In additi	y out different as on, we will go or	ssignments in turn. In a factory tour to c	leepen knowled	ge of p	roduction	n methods.	
Notice		other ar	ouns. Always kee	ay be concerned wi ep the purpose in m or more of classes w	nind, trv to work	corre	ctly, and	appearance, and the progress of try to grasp the essential things.	
<u>Ch</u> aract	eristics (Division in L						
☐ Active Learning			☐ Aided by ICT		☑ Applicable to Remote Class		ote Class	☐ Instructor Professionally Experienced	
Course	Plan								
			Theme		Goals				
1st Semeste r	1st Quarter	1st	Safety education (Katoh and Omori)			Can work safely on various machines			
		2nd	Engine exercise				asic use of hand tools and the e of engine.		
		3rd	Engine exercise	I-2 (Omori)		Understand the basic use structure and type of eng		basic use of hand tools and the ype of engine.	
		4th	Engine exercise		Can es	Can explain the difference between a two-cy engine and a four-cycle engine.			
		5th	Engine exercise II-2 (Omori)			Can explain the difference between a two-cycle engine and a four-cycle engine.			
		6th	NC exercise I-1		Understand how to program and can create an NC program.				
		7th	NC exercise I-2		Understand how to program and can create an NC program.				

		8th	Factory tour			Can produ	Deepen your knowledgetion systems and production	ge and insight of duction management.			
	2nd Quarter	9th	NC exercise II-1 (Katoh)			Understand how to operate the MC and can create an NC program.					
		10th	NC exercise II-2 (Katoh)			Understand how to operate the MC and can create an NC program.					
		11th	Motor control exercise I-1 (ohnishi)			Understand how to control various motors, and can assemble the motor driver circuit.					
		12th	Motor control exercise I-2 (ohnishi)				Understand how to control various motors, and can assemble the motor driver circuit.				
		13th	Motor control exercise II-1 (ohnishi)			Can control the speed of movement of the robot using the motor driver circuit.					
		14th	Motor control exercise II-2 (ohnishi)			Can control the speed of movement of the robot using the motor driver circuit.					
		15th	Factory tour (Katoh and Omori)			Can Deepen your knowledge and insight of production systems and production management.					
		16th	No final exam								
Evaluation Method and Weight (%)											
		Examir	nation	Report	The work		Behavior	Total			
Subtotal	Subtotal			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			