	oyama C	ollege	Year 2022			Course Robot Engineering			
Course	Informa	tion							
Course C	Code	0036			Course Categor	y !	Specialize	d / Elective	
Class Fo	rmat	Lecture		Credits			Credit: 2		
Departm	ent	ECOdesig	n Engineering C	Student Grade					
Term		First Sen	nester	Classes per We	ek 2				
Teaching	k and/or g Materials								
Instructo		'	suke,Ikeda Hidet	oshi					
The aim speakers	Objective of this lection of this lection, who are with machinery.	ure is to ma	ster the expert k amous companie	knowledge which is es in Japan. The st	s usable when yo udents not only s	u work study th	at a com ne theory	pany. We will invite engineers as but also are able to study how to	
Rubric									
			Ideal Level of Achievement (Very Good)		Standard Level of Achieve (Good)		evement	Unacceptable Level of Achievement (Fail)	
Evaluation 1			It is able to enough understand the motions of air pressure machinery or direct motion actuator.		It is able to understand the motions of air pressure machinery or direct motion actuator.		9	It is not able understand the motions of air pressure machinery or direct motion actuator.	
Evaluation 2			It is able to enough understand the elements for robot (DC motor, stepper motor, bearing)		It is able to understand the elements for robot (DC motor, stepper motor, bearing) .		motor,	It is not able to understand the elements for robot (DC motor, stepper motor, bearing) .	
Evaluation									
Assign	ed Depar	tment Ob	jectives						
	育到達度目標 (2)(d)(1) 1	票 A-6 ABEE 1(2)(e	<b>N</b>						
			:)						
<u>reacm</u> Outline	ng Metho	The aim	of this lecture is	to master the exp	ert knowledge wl	hich is u	usable wh	en you work at a company. The tem is going to be given by	
Outilite		making ι	ise of the experi	ence of developing	a humanoid rob	ot in a	company.		
Style		study the	theory but also	as speakers, who a are able to study eports. The studer	how to use the n	nachine	ry. The g	in Japan. The students not only rades of students in this lecture due date.	
Notice									
Charac	teristics	of Class /	District - 1 - 1 -						
☐ Active Learning			DIVISION IN LE	earning					
	e Learning	,	☐ Aided by I		☐ Applicable to	o Remo	te Class	☐ Instructor Professionally	
□ Activ	e Learning	,			☐ Applicable to	o Remo	te Class	☐ Instructor Professionally Experienced	
Course					☐ Applicable to	) Remo	te Class		
		1 1				Remo	te Class		
			☐ Aided by I						
		1st (	☐ Aided by I	СТ		Goals Orienta It is abl	ition le to unde		
		1st (2nd )	☐ Aided by Id  Theme  Orientation	CT gies in factory		Goals Orienta It is abl the fact It is abl	ition le to unde	erstand the sensor technologies in	
	: Plan	1st (2nd (3rd )	☐ Aided by Identify Theme Orientation Sensor technology	CT  gies in factory  chinery		Goals Orienta It is abl the fact It is abl pressur It is abl	ition le to unde tory le to unde re machin	erstand the sensor technologies in erstand technologies of air ery.	
		1st (2nd (3) (3rd (4th (4))	☐ Aided by Identify Theme Orientation Sensor technologe Air pressure made	gies in factory Chinery Chinery		Goals Orienta It is abl the fact It is abl pressur It is abl pressur It is abl	ition le to unde tory le to unde re machin le to unde re machin le to unde	erstand the sensor technologies in erstand technologies of air ery. erstand technologies of the air ery. erstand the technologies of	
	Plan	1st (2nd (3) (3rd (4th (4th (4th (4th (4th (4th (4th (4th	Theme Orientation Sensor technolog Air pressure mad	gies in factory Chinery Chinery		Goals Orienta It is abl the fact It is abl pressur It is abl pressur It is abl orthogo It is abl	ition le to unde tory le to unde re machin le to unde re machin le to unde onal robot	erstand the sensor technologies in erstand technologies of air ery. erstand technologies of the air ery. erstand the technologies of	
	Plan	1st (2nd (3) (4th (4th (4th (4th (4th (4th (4th (4th	Theme Orientation Sensor technolog Air pressure mad Air pressure mad	gies in factory Chinery t t		Goals Orienta It is abl the fact It is abl pressur It is abl pressur It is abl orthogo It is abl orthogo It is abl	ition le to under tory le to under e machin le to under e machin le to under to under to under to under to under	erstand the sensor technologies in erstand technologies of air ery.  erstand technologies of the air ery.  erstand the technologies of erstand the technologies of erstand the technologies of erstand the technologies of	
Course 1st	Plan  1st Quarter	1st	Air pressure mad	gies in factory Chinery t t		Goals Orienta It is abl It is abl pressur It is abl pressur It is abl orthogo It is abl orthogo It is abl articula It is abl	ition le to unde tory le to unde e machin le to unde e machin le to unde onal robot le to unde onal robot le to unde	erstand the sensor technologies in erstand technologies of air ery. erstand technologies of the air ery. erstand the technologies of	
Course	Plan  1st Quarter	1st 2nd 3 3rd 4th 5th 6 6th 7th 8th 6	Air pressure made orthogonal roboto	gies in factory Chinery t t		Goals Orienta It is abl the fact It is abl pressur It is abl pressur It is abl orthogo It is abl orthogo It is abl articula	ition le to under to	erstand the sensor technologies in erstand technologies of air ery. erstand technologies of the air ery. erstand the technologies of	
Course 1st	Plan  1st Quarter	1st 2nd 3 3rd 4th 5th 6 6th 7th 8th 9th	Aided by In  Theme Orientation Sensor technolog Air pressure mad Orthogonal robot Orthogonal robot Articulated robot	gies in factory Chinery t t		Goals Orienta It is abl the fact It is abl pressur It is abl pressur It is abl orthogo It is abl articula It is abl articula It is abl	ition le to under tory le to under e machin le to under e machin le to under conal robot le to under le to under conal robot le to under ted robot le to under ted robot le to under	erstand the sensor technologies in erstand technologies of air ery.  erstand technologies of the air ery.  erstand the technologies of erstand the erstand	
Course 1st	Plan  1st Quarter	1st 2nd 3 3rd 4th 5th 6 6th 7th 8th 9th 1 10th	Aided by In  Theme Orientation Sensor technolog Air pressure mad Orthogonal robod Orthogonal robod Articulated robot Articulated robot Bearing	gies in factory Chinery t t		Goals Orienta It is abl the fact It is abl pressur It is abl pressur It is abl orthogo It is abl articula It is abl articula It is abl bearing It is abl	le to unde tory le to unde re machin le to unde re machin le to unde onal robot le to unde ted robot le to unde	erstand the sensor technologies in erstand technologies of air ery.  erstand technologies of the air ery.  erstand the technologies of	
Course 1st	1st Quarter	1st	Aided by In  Theme Orientation Sensor technolog Air pressure mad Orthogonal robod Orthogonal robod Articulated robot Articulated robot Bearing Direct Motion Ac	gies in factory Chinery t t		Goals Orienta It is abl the fact It is abl pressur It is abl pressur It is abl orthogo It is abl articula It is abl articula It is abl dearing It is abl bearing It is abl bearing It is abl Motion It is abl	le to unde tory le to unde re machin le to unde re machin le to unde onal robot le to unde ted robot le to unde ted robot le to unde ted robot le to unde de to unde de to unde de to unde de to unde de to unde de to unde	erstand the sensor technologies in erstand technologies of air ery.  erstand technologies of the air ery.  erstand the technologies of DC erstand the technologies of DC erstand the technologies of	
Course 1st	1st Quarter	1st	Aided by In  Theme Orientation Sensor technolog Air pressure mad Orthogonal robot Orthogonal robot Articulated robot Articulated robot Bearing Direct Motion Acc	gies in factory Chinery t t		Goals Orienta It is abl pressur It is abl pressur It is abl pressur It is abl orthogo It is abl orthogo It is abl articula It is abl dearing It is abl bearing It is abl bearing It is abl Motion It is abl Steppei It is abl printer	le to unde tory le to unde re machin le to unde re machin le to unde ponal robot le to unde ted robot le to unde ted robot le to unde ted robot le to unde Actuator le to unde	erstand the sensor technologies in erstand technologies of air ery.  erstand technologies of the air ery.  erstand the technologies of DC erstand the technologies of SD	
Course 1st	1st Quarter	1st	Aided by In  Theme Orientation Sensor technolog Air pressure mad Orthogonal robot Orthogonal robot Articulated robot Articulated robot Bearing Direct Motion Acc DC motor Stepper motor 3D printer	gies in factory Chinery t t	achine	Goals Orienta It is abl pressur It is abl pressur It is abl orthogo It is abl orthogo It is abl orthogo It is abl articula It is abl articula It is abl bearing It is abl motion It is abl motor It is abl motor It is abl motor It is abl yrinter It is abl	le to under motory le to under machine le to under machine le to under motor le to under le to u	erstand the sensor technologies in erstand technologies of air ery.  erstand technologies of the air ery.  erstand the technologies of DC erstand the technologies of DC erstand the technologies of Erstand the Ersta	
Course 1st	1st Quarter	1st 2nd 3 3rd 4th 5 5th 6 6th 7 7th 8 8th 9 10th 1 11th 1 12th 1 13th 1 14th 1	Theme Orientation Sensor technolog Air pressure mad Orthogonal robot Orthogonal robot Articulated robot Articulated robot Bearing Direct Motion Ac DC motor Stepper motor 3D printer Working machine	gies in factory chinery t t t t t tuator	achine	Goals Orienta It is abl pressur It is abl pressur It is abl pressur It is abl orthogo It is abl articula It is abl articula It is abl articula It is abl bearing It is abl bearing It is abl Motion It is abl motor It is abl	le to under machine te to under machine te to under machine to under machine te to under machine t	erstand the sensor technologies in erstand technologies of air ery.  erstand technologies of the air ery.  erstand the technologies of DC erstand the technologies of DC erstand the technologies of 3D erstand the technologies of 3D erstand the technologies of	

Evaluation Method and Weight (%)											
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total				
Subtotal	0	0	0	0	0	100	100				
Basic Ability	0	0	0	0	0	0	0				
Technical Ability	0	0	0	0	0	100	100				
Interdisciplinar y Ability	0	0	0	0	0	0	0				