Tsuyama College			Year	2020				Course Medical and Welfare Engineering			
Course	Informa	tion									
Course Co	ode	0161				Course Cate	Course Category		Specialized / Elective		
Class Forr	mat	Lecture	ecture			Credits		Academ	Academic Credit: 2		
Departme	ent	Technology	partment of Integrated Science and Chnology Communication and Ormations System Program			Student Grade		5th	5th		
Term Year-round						Classes per Week 1					
Textbook and/or Teaching Materials PPT(From lecturer)											
Instructor		CHO Feifei									
Learning	ng, which	To learn the	basics of variou actical medical	s techno and welf	logies and fare engir	d human-cent neering techno	tered e	engineering	n the fie	lds of medical and welfare	
1. To lear 2. To be a	n about hu able to exp	olain medicine	anding and pra and welfare fro iples and overv	om the p	erspectiv	e of manufact	turing	or engineeri	ng.		
Rubric											
		Excelle	Excellent		Good		Accep	Acceptable		Not acceptable	
Achievem	Achievement 1		Learn about human understanding and practical behavior in medical, welfare, and other fields very well.		understanding and practical behavior in medical, welfare, and		unde pract medi	Learn about human understanding and practical behavior in medical, welfare, and other fields not so good.		Doesn`t know human understanding and practical behavior in medical, welfare, and other fields.	
Achievem	ent 2	medic from t manuf	Be able to explain medicine and welfare from the perspective of manufacturing or engineering very well.		medicine and welfare from the perspective of manufacturing or		and w persp manu	Cannot explain medicine and welfare from the perspective of manufacturing or engineering.		Cannot explain medicine and welfare from the perspective of manufacturing or engineering very well.	
Achievem	ent 3	princip of typi welfar	Able to explain the principles and overview of typical medical and welfare engineering		Able to explain the principles and overview of typical medical and welfare engineering		princi of typ welfa	Can not explain the principles and overview of typical medical and welfare engineering equipment.		Cannot explain the principles and overview of typical medical and welfare engineering equipment very well.	
Assiane	d Depar	tment Obje								1 - 1 - 1 - 1 - 1	
	g Metho										
General or Specialized : Specialized Field of learning : Integrated Subjects and others Required, Elective, etc. : Elective must complete subjects Foundational academic disciplines: Engineering/Mechanical Engineering/Intelligent Mechanical Systems Relationship with Educational Objectives :This class is equivalent to "(4) Develop multi-dial Attain a global perspective and understanding of social development (6) Develop problem Develop communication and presentation abilities". Relationship with JABEE programs :The main goals of learning / education in this class is							ulti-disciplinary ability (5) oblem solving ability (7) ass is "(A) , A-1".				
		application humans ar	purse outline: This course introduces students to the ideas, methods of thinking and knowledge, and oplications that are fundamental to the study of ergonomics. Ergonomics "studies the relationship between umans and their living environment from the morphological, physiological, psychological, and behavioral spects of human beings.								
Style		reports. Do	thod: Students on't be late. If y nutes late, twic	ou are n	nore than	25 minutes la	rk on a ate, or	assignments nce of classe	after sch s will be	nool and complete the canceled. If you are more	
Notice		number of offered for your instru Course adv Foundation	cautions on the enrollment: Students must take this class (no more than one-third of the required mber of class hours missed). This is a "class that requires study outside of class hours". Classes are ered for 15 hours per credit, but 30 credit hours are required in addition to this. Follow the instructions of ur instructor for these studies. urse advice: None in particular. undational subjects: Ethics (1st year), Engineering Ethics (5th) ated subjects: Medical and Welfare Engineering (5), Welfare Equipment Design (5)								
Course	Plan										
		Th	Theme					Goals			
1st Semeste r	1st Quarter	ISL Er	Guidance: What is Medical and We Engineering?			fare Th		The course will not be offered this year.			
		3rd Sy	System and Background Systems for the Elderly and Person Disabilities			s with					
		4th Se	Self-support and nursing care support			ort					
			Business relevance								
		6th Sc	cial Direction.			\perp					
		7th Se	nsors, Transdu	icers			\perp				
			1st semester mid-term exam				\perp				
	2nd		Return and commentary of exam answers								
	Quarter	10th Su	irgical and ther	apeutic d	devices						

		11th	Independence and assistive devices								
		12th	Therapeutic and prosthetic devices								
		13th	Training Equipment								
		14th	Future Developm	ent							
		15th	(1st semester fina	al exam)							
		16th	Return and comm	nentary of exam	answers						
2nd Semeste r		1st									
		2nd									
		3rd									
	3rd	4th									
	Quarte	r 5th									
		6th									
		7th									
		8th									
		9th									
		10th									
		11th									
	4th	12th									
	Quarte	r 13th									
		14th									
		15th									
		16th									
Evaluat	ion Me	thod and V	Veight (%)								
		Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total			
Subtotal		50	10	10	0	10	20	100			
Basic Proficiency)	0	0	0	0	0	0			
Specialized Proficiency		50	10	10	0	10	20	100			
Cross Area Proficiency)	0	0	0	0	0	0			