Tsuyama Co	ollege	Year	2021		Course Title	Wellbeing Science and Assistive Technology
Course Information						
Course Code	0153		Course Category	Specializ	Specialized / Elective	
Class Format	Lecture		Credits	Academi	Academic Credit: 2	
Department	Department of Integrated Science and Technology Electrical and Electronic Systems Program		Student Grade	5th	5th	
Term	First Semester		Classes per Week	2	2	
Textbook and/or Teaching Materials	xtbook and/or aching Materials Textbooks:Japanese Society for Wellbeing Science and Assistive Technology. The Rehabilitation Engineering Society of JAPAN ,"Wellbeing Science and Assistive Technology"(Korona Publishing co. ltd.)					
Instructor	YABUKI Noboru					
Course Objectives						

Learning purposes:

Understand the basic principles of life support engineering, and explain the technology and environment required for support in daily life situations.

Course Objectives

1. Understand the basic principles of life support engineering.
2. The student can explain the basic concept of equipment design and environment maintenance.
3. The student can explain what is needed for support in each life situation, such as activities of daily living and communication.

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	Excellent	Good	Acceptable	Not acceptable		
Achievement 1	The student can use the basic philosophy of life support engineering.	The student can explain the basic philosophy of life support engineering.	The student can understand the basic philosophy of life support engineering(test).	The student can 't understand the basic philosophy of life support engineering.		
Achievement 2	The student can use the basic concept of equipment design and environment maintenance.	The student can explain the basic concept of equipment design and environment maintenance.	The student can understand the basic concept of equipment design and environment maintenance(test).	The student can't understand the basic concept of equipment design and environment maintenance.		
Achievement 3		The student can explain what is needed for support in each life situation, such as activities of daily living and communication.	The student can understand what is needed for support in each life situation, such as activities of daily living and communication(test).	The student can't understand what is needed for support in each life situation, such as activities of daily living and communication.		

Assigned Department Objectives

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General or Specialized: Specialized Field of learning: Interdisciplinary subjects/etc.(Medical and social welfare Program) Foundational academic disciplines: Biomedical engineering and related fields / Medical assistive technology-

Relationship with Educational Objectives:

This class is equivalent to "(4) Develop multi-disciplinary ability"

Outline

Relationship with JABEE programs : The main goal of learning / education in this class is "(A)... A-1..."

In this class, it is the life support technology based on human resources and welfare equipment that will support the elderly and disabled in the future. In this course, the student will learn the basic matters necessary for independence support and long-term care support for the elderly and disabled, as well as technology and environment improvement to support living and employment.

Course method:

Classes will be centered around writing on the board. The Student will proceed with the lessons while solving exercises as appropriate in order to deepen their understanding. In addition, reports and issues will be given according to the situation. (This class is a semi-annual subject)

Style

Grade evaluation method:

Examination(70%)+Exercises and report assignments (30%).
Examinations will be conducted a total of 2 times, and the evaluation ratios will be the same.

• Each test does not allow notebooks to be brought in.

• For those who have less than 60 points in each regular test, supplementary lessons will be given, and if the understanding can be confirmed by the retest, the points may be changed. However, the evaluation after the change shall not exceed 60 points.

		Students to compl of study	Precautions on the enrollment: Students must take this class (no more than one-third of the required number of class hours missed) in order to complete the 5th year course. This is a class that requires study outside of class hours. A total of 45 hours of study is required per credit, including both class time and study outside class time. Follow the instructions of the instructor regarding study outside of class hours.						
Notice F S E		As a pre	Course advice : As a preparatory study, students should research examples of life support in medical welfare. Foundational subjects : Subjects learned so far.						
		Related s Services Engineer	Related subjects: Medical and Welfare Engineering(5th), Ergonomics(5th), Psychology for Human Services(5th), Welfare Equipment Design(5th), Biological Information Processing(5th), Biomeasurement Engineering(5th), Wellbeing Science and Assistive Technology(5th), Etc.						
		The stud report. I Late arri	Attendance advice: The student must make preparations / reviews and work on assignments outside of class hours and submit a report. If you do not understand the content of the lesson, ask the teacher. Late arrivals of 25 minutes or more are treated as one absence, and late arrivals of 75 minutes or more are treated as two absences.						
Charact	eristics o		Division in Learning						
☐ Active Learning			☐ Aided by ICT	☑ Applicable to Remote Class		☐ Instructor Professionally Experienced			
Elect	ive m	nust c	omplete subjects						
Course	Plan								
			Theme		Goals				
		1st	Not offered this year Guidance, Concepts of Life Support (1)	Engineering	To confirm the class plan. To understand the definition of life support engineering.				
		2nd	Concept of life support engineering	(2)	To understand the concept of life support engineering				
		3rd	Concept of disability (1)		Understand the definition of disability.				
	1st	4th	Concept of disability (2)		To understand the actual situation of people with disabilities.				
	Quarter	5th	Support for daily life using assistive	devices (1)	Understanding the points of using assistive devices and support for daily life activities.				
		6th	Support for daily life using assistive	devices (2)	Understanding support for posture maintenance and mobility.				
		7th	Various types of support (1)		To understand support for communication and equipment operation.				
1st Semeste		8th	(First semester midterm exam)		To confirm the contents of the study up to this point.				
r			Return of mid-term exam and expla answers, various types of support (Confirmation and remediation of areas of insufficient learning. Understand how to support information gathering and dissemination.				
		10th	Support (3)		Understanding support for cognitive disabilities.				
		11th	Accessible design (1)		To understand the outline of accessible design.				
	2nd	12th	Accessible design (2)		To understand the points to make accessible design.				
	Quarter	13th	Human-friendly living environment	(1)	Understanding the living environment.				
		14th	Human-friendly living environment	(1)	Understanding the urban environment.				
		15th	(End of semester exam)		Confirm the contents of study.				
			Return of answers to the final exam explanation of the exam	n and	Confirmation and remediation of areas of insufficient learning. Understand how to support information gathering and dissemination.				
Evaluation Method and Weight (%)									
			Examination	Exercise / repo	ort assignment	Total			
Subtotal			70	30		100			
Basic Proficiency			0	0		0			
Specialized Proficiency			70	30		100			
Cross Area Proficiency			0	0		0			