

Tsuyama College		Year	2022	Course Title	General Aspects of Integrated Engineering V
Course Information					
Course Code	0043		Course Category	Specialized / Elective	
Class Format	Lecture		Credits	School Credit: 2	
Department	Department of Integrated Science and Technology Communication and Informations System Program		Student Grade	3rd	
Term	Intensive		Classes per Week		
Textbook and/or Teaching Materials					
Instructor	YAMAGUCHI Daizo,KAWANAMI Hiromichi				
Course Objectives					
<p>Learning purposes: To acquire knowledge of electrical and electronic circuits, which is the basis of total rational engineering, and to acquire the basic skills for understanding engineering phenomena and problem solving.</p> <p>Course Objective:</p> <ol style="list-style-type: none"> 1. To be able to understand and explain electric signals such as direct current and alternating current. 2. To be able to understand and explain the electronic components used in electric and electronic circuits. 3. To be able to understand and explain the operating principles of basic electric circuits. 					
Rubric					
	Excellent	Good	Acceptable	Not acceptable	
Achievement 1	The ability to understand and explain electric signals such as direct current and alternating current very well.	The ability to understand and explain electric signals such as direct current and alternating current.	The ability to understand and explain electric signals such as direct current and alternating current to an acceptable level.	Has not reached the required standards.	
Achievement 2	The ability to understand and explain the electronic components used in electric and electronic circuits very well.	The ability to understand and explain the electronic components used in electric and electronic circuits.	The ability to understand and explain the electronic components used in electric and electronic circuits to an acceptable level.	Has not reached the required standards.	
Achievement 3	The ability to understand and explain the operating principles of basic electric circuits very well.	The ability to understand and explain the operating principles of basic electric circuits.	The ability to understand and explain the operating principles of basic electric circuits to an acceptable level.	Has not reached the required standards.	
Assigned Department Objectives					
Teaching Method					
Outline	<p>General or specialized: Specialized</p> <p>Field of learning: Common and Basic Natural Sciences</p> <p>Foundational academic disciplines: Biology/Basic Biology</p> <p>Relationship with Educational Objectives : This class is equivalent to "(2) Acquire basic science and technical knowledge".</p> <p>Course outline: This course is designed for students who transfer from the departments of Mechanical Engineering, Electrical and Electronic Engineering, Electronic Control Engineering, and Computer Science and Engineering to the Department of Integrated Science and Engineering to acquire the academic skills that will not interfere with their studies. Specifically, lectures and exercises are given to first-year students of the Department of Integrated Science and Engineering with an emphasis on biology.</p>				
Style	<p>Course method : During long vacations, etc., lectures are given in a concentrated manner. Classes are based on assignment reports and exercises, and lectures are given as needed.</p> <p>Grade evaluation method: Notes (50%) + reports (50%).</p>				
Notice	<p>Precautions on the enrollment : : Subject to 3rd year transfer students from the departments of Mechanical Engineering, Electrical and Electronic Engineering, Electronic Control Engineering, and Computer Science and Engineering. This course is held as an intensive course during the long vacation.</p> <p>Course advice: Biology is a basic subject in the Department of Integrated Science and Engineering, and it is a fundamental subject for students to learn after transferring. It is necessary to understand these subjects in order to transfer to a new department. Preparatory study to be done in advance.</p> <p>Basic subjects: Fundamentals of Integrated Science and Technology (1st year)</p> <p>Related subjects: Digital Engineering (3rd), Introduction to Electricity and Magnetism (3rd) Trans Exercise of All Program I (3rd) Trans Exercise of All Program II (4th), Electrical and Electronic Systems (5th)</p> <p>Note: In programming, typing speed and accuracy are important. It is considered tardy to enter the room after the attendance confirmation. Two tardies will be counted as one credit hour missed.</p>				
Characteristics of Class / Division in Learning					
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	
				<input type="checkbox"/> Instructor Professionally Experienced	
Elective subjects					
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	The course will not be offered this year.		
		2nd			
		3rd			
		4th			

		5th		
		6th		
		7th		
		8th		
	2nd Quarter	9th		
		10th		
		11th		
		12th		
		13th		
		14th		
		15th		
		16th		
2nd Semester	3rd Quarter	1st		
		2nd		
		3rd		
		4th		
		5th		
		6th		
		7th		
		8th		
	4th Quarter	9th		
		10th		
		11th		
		12th		
		13th		
		14th		
		15th		
		16th		

Evaluation Method and Weight (%)

	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	0	0	0	50	50	100
Basic Proficiency	0	0	0	0	50	50	100
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0