Tsuyama College		Year	2021		Course Title	Regulations on Electrical Facilities		
Course Information								
Course Code	0072			Course Category	Specializ	Specialized / Compulsory		
Class Format	Lecture			Credits	School C	School Credit: 1		
Department	Department of Integrated Science and Technology Electrical and Electronic Systems Program			Student Grade	4th	4th		
Term	First Semester			Classes per Week	2	2		
Textbook and/or Teaching Materials	Textbooks :Shouji Takeno, "Denkihouki to Denkisisetsukanri" (Tokyou Denki Daigaku Shuppankyoku)							
Instructor	UETSUKI Tadao							
Course Objective	20	·			·			

Course Objectives

Learning purposes:

Understand the necessity for and meaning of the regulations on electrical facilities and acquire the knowledge to deal with possible

Course Objectives:

1. To understand the necessity and meaning of the regulations on electrical facilities

2. To understand the outline of the regulations on electrical facilities as to the supply of electric power, the construction of electric facilities, the production of electric equipment, and the consumption of the large amounts of electric energy.

Rubric							
	Excellent	Good	Acceptable	Not acceptable			
Achievement 1	The student understands and can describe the necessity for and the meaning of the regulations on electric facilities in detail.	The student can roughly understand and describe the necessity and the meaning of the regulations on electric facilities roughly.	The student cannot describe the necessity and the meaning of the regulations on electric facilities well, but he understands them.	The student cannot describe the necessity and the meaning of the regulations on electrical facilities at all, because they are not understood.			
Achievement 2	The student can understand and accurately describe the outline and the kinds of the regulations on electric facilities in detail, which are necessary for supply of electric power, the construction of electric facilities, the production of electric equipment, and the consumption of large amounts of electrical energy.	The student can roughly describe the outline and the kinds of the regulations on electric facilities, which are necessary for supply of electric power, the construction of electric al facilities, the production of electrical equipment, and the consumption of large amount of electrical energy, by understanding them.	The student cannot describe the outline and the kinds of the regulations on electrical facilities well, which are necessary for the supply of electric power, the construction of electrical facilities, the production of electrical equipment, and the consumption of large amount of electrical energy. However the principles are understood	The student cannot describe the outline and the kinds of the regulations on electrical facilities at all, which are necessary for supply of electrical power, the construction of electrical facilities, the production of electrical equipment, and the consumption of large amount of electric energy. This is because the principle are not understood.			

Assigned Department Objectives

Assigned Department Objectives						
Teaching Method						
Outline	General or Specialized : Specialized Field of learning : Electrical and Electronic Required, Elective, etc. : Must complete subjects Foundational academic disciplines : Engineering / Electrical and electronic/ Electrical Power Engineering, Conversion of Electrical power, Electrical Apparatus					
	Relationship with Educational Objectives : This class is equivalent to "(3) Acquire deep foundation knowledge of the major subject area".					
	Relationship with JABEE programs : The main goals of learning / education in this class are "(A),(A-2)".					
	Course outline: To understand the kinds of regulations on electrical facilities, and the object of each regulation. At the same time, to study the safety regulations and technical standards for electrical facilities concretely. The way of advancing this lecture uses group discussions to understand the contents of this course more deeply.					
Style	Course method: This course is held in the second semester (16 weeks), and each lecture is 90 minutes a week. The lecture is advanced in line with the text book, and uses group discussion among the students to understand the contents more deeply.					
	Grade evaluation method: There are assignments that must be submitted. Exams (70%)+ Portfolio (30%). Examinations will be conducted 2 times, and the evaluation ratios will be the same. The textbook may sometimes be brought into the examination, but detailed instructions will be given beforehand each time. Re-examination may be possible depending on the situation of the students who have failed the initial examination.					

			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 4th year course.								
Notice		Course advice : Read the textbooks and read aloud before class to see if there are any parts you do not understand.									
		Foundational subjects : Electric Circuit I , II (3rd year, 4th), Electromagnetism I , II (3rd, 4th), Electrical Apparatus I , II (2nd, 3rd)									
		Related : Distribut	Related subjects : Engineering of Electric Power Generation (4th year), Electric Power Transmission and Distribution (4th), High Voltage Engineering I (4th)								
This cours in your io				nce advice: rse is necessary for the electrical engineer. If you need the qualification of a Chief Electrical Engineer ob in future, you will be exempted from the "Regulations on Electrical Facilities" examination. re late, you will be treated as absent 25 minutes after the class starts.							
Characteristics of Class / Division in Learning											
☐ Active Learning			☐ Aided by ICT ☐ Applicable t		to Remote Class						
C	DI										
Course	Pian			Thoma			Coals				
		1st		Theme Guidance and system of regulations			Goals Understand the system of regulations				
				Purpose of the Electric business regulation	ctricity Business A		Understand the purpose of the Electricity Busine Act				
		3	Brd	Way of thinking about the electric security and the organization on the electric security as to the Electricity Business Act			Understand Way of thinking about the electric security				
	1st Quarte	- 1	ŀth	Category and kinds of the electric facilities, and security to the electric facilities for the Electricity Business Act			Understand Category and kinds of the electric facilities				
				Acquisition of the qualification of a Chief Electrical Engineer			Understand the duty of a Chief Electrical Engineer				
				Security organization for the general electric facilities			Understand the security organization for the general electric facilities				
1st Semeste r		-	uı	The Electrical Engineers Act and the Electrical Appliance and Material Safety Act			Understand the Electrical Engineers Act and the Electrical Appliance and Material Safety Act				
		8		st semester mid-term exam							
		F	/CI I	Return and comme the technical stand	lards as to the ins	sulation	Understand the insulation				
	-			The technical stand			Understand the cable way Understand the laying cable				
	2nd		2+h	The technical stand The technical stand collaboration as to	dards the technic	al	Understand the technical collaboration as to the electric power system				
	Quarter			The electrical stand	•	er system	Understand the necessity of the electrical standard				
		1	.4th	The maintenance of the electric plant			Understand the maintenance of the electric plant				
		1	.5th	(1st semester final	1st semester final exam)						
			.6th	Return and comme	entary of exam ar	nswers					
Evaluati	on Me	etho	d and V	Veight (%)							
Examinati		nination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total			
Subtotal 70			0	0	0	30	0	100			
Basic Proficiency 0		0		0	0	0	15	0	15		
Coosislined		70		0	0	0	15	0	85		
Cross Area Proficiency 0			0	0	0	0	0	0			