Tsuyama College		Year	2020			ourse Title	Introduction to CAD	
Course Informati	ion							
Course Code	0034 Course Cate		Course Category	Specialized / Compulsory		ed / Compulsory		
Class Format	Practical trai	ning		Credits	School Credit: 2			
Department	Technology (of Integrated Communication System Prog	n and	Student Grade		2nd		
Term	Year-round			Classes per Week		2		
extbook and/or eaching Materials Textbooks : "ADRISE edited, Yokuwakaru 3 dimensional CAD system SOLIDWORKS Nyumon"(Nikkan Kogyo Shimbun, Ltd.)								
Instructor	YAMAGUCHI Daizo,KATO Manabu,CHO Feifei							
Course Objective	!S							
Learning purposes: The culture for enginstandard tool. Entry- Course Objectives: 1. To be able to exp 2. To be able to und	level operating	method coul	d be mastered.		ise.	Three dir	mensional CAD system is a	

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1st Semeste 1st Quarter

1st

2nd

Guidance

What is 3D computer graphics?

Rublic						
	Excellent	Good	Acceptable	Not acceptable		
Achievement 1	To be able to explain the function of each unit and structure of CAD system.	function of each unit of	To be able to explain the general outline of CAD system.	Has not reached the Acceptable level.		
Achievement 2		basic function of each	To be able to explain CAD system with textbook.	Has not reached the Acceptable level.		
Achievement 3		the functions for	To be able to understand third angle projection method.	Has not reached the Acceptable level.		

To chighteening drawing. [Chighteening drawing. [Interiod.]								
Assigned Department Objectives								
Teachin	Teaching Method							
		General or Specialized : Specialized						
		Field of learning: Common to all courses of engineering, Materials, Design and Production, Computer Control, Electrical and Electronic Contorol						
1		Required, Elective, etc. : Must complete subjects						
	Outline	Foundat function	Foundational academic disciplines : Engineering / Mechanical engineering / Design engineering, Machine functional element, tribology					
Outline		Relation of the m	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 is (A) also (D)is involved.					
		Course outline: Students will learn the basic operation of CAD, which is widely used as a tool for mechanical and electrical/electronic drawing. "SolidWorks" is used as the CAD software for mechanical drawing.						
Style		Course method: The class is taught in a seminar room at the Central Information Center, using a board and slides, mainly exercises to understand the CAD system, and basic operations to make simple drawings.						
		Grade evaluation method: Evaluation of the level of completion of the drawings (60%) and attitude towards the work (40%); however, if one of the drawings is not completed, no grade will be given.						
			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 2nd year course.					
	Course advice: Perform CAD operations as a basis for mechanical and electrical/electronic drawing. It is necessary to be familiar with basic PC operations on a regular basis.							
Notice	Notice		Foundational subjects: Integrated science and technology basis (1st year)					
		Related subjects : Electrical and electronic circuits (2nd year)						
		Attendance advice: Students must not be late or miss a class. It is important to have a good attitude in order to learn basic operations. Students are expected to submit drawings on time.						
Course Plan								
			Theme		Goals			
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To understand the overall flow of the class. To understand the precautions.

Understanding 3-D computer graphics.

Basic of 3D computer graphics. Describe 3-D computer graphics								
She because of Shape Grasping and Three Plane Drawing [Third angle projection method can be explained, bit Exercise for geometry recognition 1 Be able to draw a projection well- The Exercise for geometry recognition 2 Be able to draw a projection view from a three- discontinuation of the projection of the parts of t			3rd	Basics of 3D computer graphics.				
Drawing [Third angle projection method]. She able to draw a projection view from a three-dimensional figure.			4th		· -			
The Exercise for geometry recognition 2			5th	Basics of Shape Grasping and The Drawing [Third angle projection r	ree Plane nethod].	Third angle proje	ection method can be explained.	
8th Exercise for geometry recognition 3			6th	Exercise for geometry recognition	1			
9th Exercise for geometry recognition 5 Part Secretate Secre			7th	Exercise for geometry recognition	1 2		out mistakes in the projection	
Sea			8th	Exercise for geometry recognition	ı 3	Be able to compl	ete a three-view drawing by ed geometries.	
10th Exercise for geometry recognition 5 Se able to draw an isometric view from a projection view.			9th	Exercise for geometry recognition 4		Be able to draw	a three-dimensional figure from	
Part Carbon Properties of CAD Sea able to explain the types and properties of CAD (textbook pages 7-14, same as below), 12th Basic CAD operations 2 (sketching and dimensioning) Beable to start, save and exit the software (15-30). 13th Basic CAD Operations 2 (sketching and dimensioning) 14th Basic CAD Operations 2 (sketching and dimensioning) 15th Basic CAD Operations 3 (Feature) Beable to perform Fillet operations (40-47). 15th Basic CAD Operations 5 (Assembly). Beable to perform Fillet operations (48-59). 16th			10th	Exercise for geometry recognition	ı 5	Be able to draw		
Pad Quarter 12th			11th	Types and Properties of CAD		Be able to explai	n the types and properties of ages 7-14, same as below).	
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14th Basic CAD Operation 3 (Feature) Be able to perform Feature operations (40-47).			13th	Basic CAD operations 2 (sketching and		Be able to perform sketching and dimensioning		
15th Basic CAD Operations 4 (Fillet) Be able to perform Fillet operations (48-59).			14th			+'		
16th 1st Basic CAD operations 5 (Assembly) Be able to perform Assemble operations (60-73).						<u> </u>		
Second content of the parts o				Dasic CAD Operations 4 (Fillet)		be able to perform Fillet operations (48-59).		
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Ath CAD exercises for simple machine elements 3 CAD exercises for simple machine elements 3 Be able to perform copying geometry, rounding corners and defining a complete in sketches. Understand and use the basic functions of a CAD system.			3rd	CAD exercises for simple machine elements 2		Be able to extrude in sketches operation, operate a model display and add hollowed-out shapes. Understand and use the basic functions of a CAD		
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