

Akashi College		Year	2023		Course Title	Design and Drawing II A		
Course Information								
Course Code		5227		Course Category		Specialized / Compulsory		
Class Format		Practical training		Credits		School Credit: 1		
Department		Mechanical Engineering		Student Grade		2nd		
Term		First Semester		Classes per Week		2		
Textbook and/or Teaching Materials								
Instructor		MATSUZUKA Naoki						
Course Objectives								
(1) Understand the standards of mechanical drawing and create production drawings of mechanical parts. (2) Can sketch a vise and create its production drawing.								
Rubric								
		Ideal Level		Standard Level		Unacceptable Level		
Achievement 1		Understand the standards of mechanical drawing and can accurately create production drawings of mechanical parts.		Understand the standards of mechanical drawing and can create production drawings of mechanical parts.		Do not understand the standards of drawing and cannot create production drawings of mechanical parts.		
Achievement 2		Can sketch a vise and accurately create its production drawings.		Can sketch a vise and create its production drawing.		Cannot sketch a vise and create its production drawing.		
Assigned Department Objectives								
Teaching Method								
Outline		We will learn correct drawing method by tracing existing drawings. In addition, we will create production drawings based on sketches and dimensional measurements of a vise, etc. The aim is to learn the structure of machinery and to acquire the correct drafting method that is in accordance with JIS through these processes.						
Style		Classes will be taught in a lab style.						
Notice		Try to understand the interaction between actual goods and drawings. Also, pursue a design drawing that is acceptable in real-world use. Students who miss 1/4 or more of classes will not be eligible for evaluation.						
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		
Course Plan								
			Theme		Goals			
1st Semester	1st Quarter	1st	Explanation of learning content and review of Design and Drawing I		Understand and can explain the basics of mechanical drawings.			
		2nd	Drawing bearing (1)		Understand how to draft production drawings and can create (trace) production drawings.			
		3rd	Drawing bearing (2)		Understand how to draft production drawings and can create (trace) production drawings.			
		4th	About sketches and production drawings		Understand the purpose and procedures of sketching.			
		5th	Sketching a vise (1)		Can observe and sketch a vise.			
		6th	Sketching a vise (2)		Can observe and sketch a vise.			
		7th	Sketching a vise (3)		Can observe and sketch a vise.			
		8th	Sketching a vise (4)		Can observe and sketch a vise.			
	2nd Quarter	9th	Sketching a vise (5)		Can observe and sketch a vise.			
		10th	Sketching a vise (6)		Can observe and sketch a vise.			
		11th	Drawing a vise's movable parts (1)		Can create a production drawing from a sketch.			
		12th	Drawing a vise's movable parts (2)		Can create a production drawing from a sketch.			
		13th	Drawing a vise's movable parts (3)		Can create a production drawing from a sketch.			
		14th	Drawing a vise's movable parts (4)		Can create a production drawing from a sketch.			
		15th	Drawing a vise's movable parts (5)		Can create a production drawing from a sketch.			
		16th	Final exam					
Evaluation Method and Weight (%)								
	Attendance		Examination		Drawing		Total	
Subtotal		30		20		50		100
Basic Proficiency		0		0		0		0
Specialized Proficiency		30		20		50		100
Cross Area Proficiency		0		0		0		0