

Akashi College		Year	2022		Course Title	Architectural Project Practice
Course Information						
Course Code	4526			Course Category	Specialized / Elective	
Class Format	Seminar			Credits	Academic Credit: 4	
Department	Architecture			Student Grade	5th	
Term	First Semester			Classes per Week	4	
Textbook and/or Teaching Materials						
Instructor	SHOJO Naoya,MOTOZUKA Tomoki					
Course Objectives						
(1) To understand the structure, parts, elements and three-dimensional structure of conventional timber construction methods (2) To understand the building regulations, necessary spaces, and functions to design using traditional timber construction methods. (3) To be able to draw timber construction drawings well enough to pass a level 2 architect license test.						
Rubric						
	Ideal Level		Standard Level		Unacceptable Level	
Achievement 1	The student can entirely understand the structure, parts, and elements of the traditional wooden construction method, and draw the necessary drawings.		The student can understand the structure, parts, and elements of the traditional wooden construction method, and draw the necessary drawings.		The student can not understand the structure, parts, or elements of the traditional wooden construction method, or draw the necessary drawings.	
Achievement 2	The student can creatively design a timber building, after understanding the required space and functionality for it.		The student can design a timber building, after understanding the required space and functionality for it.		The student can not design a timber building, after understanding the required space and functionality for it.	
Achievement 3	The student can draw timber construction drawings well enough to pass a level 2 architect license test.		The student can draw timber construction drawings.		The student can not draw timber construction drawings.	
Assigned Department Objectives						
Teaching Method						
Outline	To make a framework model following the plan of an existing traditional wooden construction house, to learn the parts, elements and three-dimensional composition of conventional wooden construction methods. To solve the problems of a 2nd level architect license test and learn design planning and drafting method. In addition, the instructor, who was in charge of designing timber house at a design office, will instruct from the 8th to the 15th week, and the lessons, using the instructor experience, will include exercises on the latest design methods.					
Style	The course has two assignments, and the students will learn through the execution of those assignments. Assignment1 (week 1 to 8): Framework model of a wooden house, the "White House." preparation of drawings and presentation Assignment2 (week 9 to 15): To solve the problems of a 2nd level architect license drafting test Week 1-4,8-11,14,15:Motozuka, Week 5-7,12,13:Shojo					
Notice	Students attendance is required, and only a maximum of 3 absences is excused. No test, minimum requirement to submit all assignments This course requires 180 hours of self-study time to do reviews, and assignments.					
Characteristics of Class / Division in Learning						
<input checked="" 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	Orientation Course schedule and assignments explanation.	To correctly understand the assignments.		
		2nd	Timber structure frame model (1) Selection of group members and execution of the model	To understand the definition and units of force, to understand and calculate force synthesis/decomposition. To understand and calculate the balance of force.		
		3rd	Timber structure frame model (2) Group execution of timber structure frame model	To explain the type of load acting on a frame structure.		
		4th	Timber structure frame model (3) Group execution of timber structure frame model	To understand the stability and instability of a structure.To calculate the reaction force of various structures.		
		5th	To trace a floor plan and a structural plan	To understand the spacial composition, the structural system, and to draw a complete floor plan and structural plan		
		6th	To trace elevations and section	To understand the volume of the building and to draw complete elevations and sections of the building.		
		7th	To trace a detailed section	To understand the relationship between different architectural elements, size, structure, floor plan, and to draw a detailed section.		
		8th	Presentation and evaluation.	To clearly present the assignment.		
	2nd Quarter	9th	Level 2 architect license test and timber house design (1) practice sketches to a timber house design	To understand the contents, the knowledge, and skills necessary to pass the level 2 architect license test		

		10th	Timber house design (2) To make sketches for the design of a timber house	To understand the test text and to finish on time the design of the floor plan.
		11th	Timber house design (3) To make sketches for the design of a timber house	To understand the test text and to finish on time the design of the floor plan.
		12th	Timber house design (4) To make sketches for the design of a timber house	To understand the test text and to finish on time the design of the floor plan.
		13th	Traditional timber construction methods. (5) Drafting of the framing plan and the detailed section	To draw a framing plan in accord to the floor plan and detailed section.
		14th	Traditional timber construction methods. (6) To draw a solution to the Level 2 architect license drafting test.	To understand the test and to finish the drawing on time.
		15th	Final presentation To compare the answers to the test and mutual evaluation	To understand the drawings necessaire to pass the Level 2 architect license drafting test.
		16th	End-term Exam	

Evaluation Method and Weight (%)

	Presentation	Mutual evaluation	Assignments	Drawings	Total
Subtotal	10	5	25	60	100
Basic Proficiency	0	0	0	0	0
Specialized Proficiency	10	5	25	60	100
Cross Area Proficiency	0	0	0	0	0