Akashi College		Year 2022				ourse Title	Building Services and Air Conditioning A			
Course	Informa	tion	,	•		•	- 1	,		
Course Code 4515						ry	Specialize	l / Compulsory		
Class Format Lecture						School Cre		•		
Department Architectu			ıre		Student Grade	e 5th				
Term First Seme			nester	ester		eek 2				
Textbook Teaching	and/or Materials	建築設備	大塚雅之著 市	大塚雅之著 市ヶ谷出版社						
Instructor	r	HIRAISH	II Toshihiro	Toshihiro						
(1) To un saving eq	uipment, a	he type an and genera	I construction eq	uipmėnt.	-		•	ter prevention equipment, energy		
saving eq	uipment.		er students prese	_	tation equipmer	it, aisas	ster prevei	ntion equipment and energy		
Rubric										
			Excellent		Good			Insufficient		
Achievem	ent 1		understand the purpose of wardrainage sani disaster prevenergy saving	The student can perfectly understand the type and purpose of water supply and drainage sanitation equipment, disaster prevention equipment, energy saving equipment, and general construction equipment.		The student can understand the type and purpose of water supply and drainage sanitation equipment, disaster prevention equipment, energy saving equipment, and general construction equipment.		The student can not understand the type and purpose of water supply and drainage sanitation equipment, disaster prevention equipment, energy saving equipment, and general construction equipment.		
Achievement 2			The student can make an excellent presentation about water supply and drainage sanitation equipment, disaster prevention equipment and energy saving equipment.		The student can make a good presentation about water supply and drainage sanitation equipment, disaster prevention equipment and energy saving equipment.		ater supply on revention	The student can not make a presentation about water supply and drainage sanitation equipment, disaster prevention equipment and energy saving equipment.		
Achievement 3			The student can listen with attention and pose good questions to other students presentation.		The student can listen and pose questions to other students presentation.			The student can not listen or pose questions to other students presentation.		
Assigne	d Depar	tment Ol	ojectives							
	g Metho									
Outline		electrica equipme understa construc specializ	I equipment, lighent. The objective and major theoriestion. This topic is defined field of architer.	It equipment, fire-pe is to give the studes and phenomenancludes the contement	prevention equip dents the necess related to ambi nporary theme o nental knowledg	ment, I sary kno ent con of new e	heating an owledge al nfort for u energy util	I sanitary drainage system, d cooling air conditioning bout energy conservation and se in architectural design and ization and is related to all omfortable environment and at		
Style		disaster ventilati Weeks 9 Each stu	ks 1-8 Lectures: Basic knowledge of water supply and drainage sanitation, hot-water supply, and ter prevention. Understanding water and hot-water supply system, sanitation equipment, drainage, lation system, and basic designing skills. (s 9-15: student chooses a topic of interest among the building service learned at the previews week and makes ninute presentation about that equipment. Adjust in the eighth week so that the topics do not overlap. ents' understanding checked through execution of exercises from the level 2 architect license test.							
Notice		To revie required	w the content lead, and only a max	arned on Environm	ental Engineerin	ıg in Ar	chitecture	I and II. Students attendance is		
Charact	eristics	of Class /	Division in L	earning						
✓ Active Learning				☐ Aided by ICT ☐ Applicable to Remo		ote Class	☐ Instructor Professionally Experienced			
Course	Dlan									
Course	riaN 		Thomas			Carl				
1st Semeste r	1st Quarter	1st	Theme Overview of buil equipment differ	uilding tion.	Goals To understand the building equipmen		ne different types and function of			
		2nd	Water supply an purpose Hydraulics Basic planet, structure drainage and sa to be careful wh	pply and drainage, sanitation equi s Basics, circulation of water on tl ructure, and role of water supply, and sanitation facilities, basic prin eful when designing.		To understand sanitation equipment and the water supply system.		anitation equipment and the		
		3rd	Different types a and disadvantag temperature (su use and suitable supply). Sheath	hot water supply system erent types and characteristics (advantages disadvantages), hot water supply perature (suitable temperature at the time of and suitable temperature for hot water ly). Sheath tube header system and the st piping systems.			To understand the amount of water used, and different types of hot water supply system.			

	4th	ventilation system for breaking. Description	ation system rain pipe and trap. The protecting the trap from of special joint drainage tion pipe is unnecessary.	To know how to determine the pipe diameter of the water supply and drainage pipes. To understand the septic tank.		
	5th	water quality standard	septic tank, and gas wastewater septic tank, and ds, legal regulations. Gas s supply safety measures.	To understand the diversion and combined drainage methods existent inside and outside the residential site.		
	6th	Fire extinguishing equ Types of fire and diffe extinguishing equipme	rent functions of fire	To understand the types of fire extinguishing equipment, smoke exhaust equipment, and fire alarm system.		
	7th	Choice and division of presented.	the topic to be studied and	To do a presentation ab and make questions abo presentations.	out a topic, and to listen out other students	
	8th	Presentation 5 min, Q	about building equipment &A 3 min, questions that hould be answered on the		and make questions about ewable energy, water supply, and	
	9th	Presentation 5 min, Q	about building equipment &A 3 min, questions that hould be answered on the	To understand and make questions about equipment (renewable energy, water supply, and drainage).		
	10th	Presentation 5 min, Q	about building equipment &A 3 min, questions that hould be answered on the	To understand and make questions about equipment (renewable energy, water supply, and drainage).		
	11th	Presentation 5 min, Q	about building equipment &A 3 min, questions that hould be answered on the	To understand and make questions about equipment (renewable energy, water supply, and drainage).		
2nd Quarter	12th	Presentation 5 min, Q	about building equipment &A 3 min, questions that hould be answered on the	To understand and make questions about equipment (renewable energy, water supply, and drainage).		
	13th	Presentation 5 min, Q	about building equipment &A 3 min, questions that hould be answered on the	To understand and make questions about equipment (renewable energy, water supply, and drainage).		
	14th	Presentation 5 min, Q	about building equipment &A 3 min, questions that hould be answered on the	To understand and make questions about equipment (renewable energy, water supply, and drainage).		
	15th	Presentation 5 min, Q	about building equipment &A 3 min, questions that hould be answered on the	To understand and make questions about equipment (renewable energy, water supply, and drainage).		
	16th	End-term Exam		To evaluate the content learned.		
Evaluation Meth	od an	d Weight (%)				
		Examination	Presentation	Participation (questions)	Total	
Subtotal	!	50	40	10	100	
Basic Proficiency		0	0	0	0	
Specialized Proficien	cv !	50	40	10	100	
Specialized Froncien		0		0	0	