Akashi College				Year 2022				Building Construction and Process B					
Course	Informa	tion			•		•						
Course Co	ode	4518				Course Categor	ry Specialized / Compulsory						
Class Format Lecture						Credits	School Credit: 1						
Department Architectu			ture			Student Grade	5t						
Term Second Se			Seme	ester		Classes per Week 2							
Textbook and/or 初学者の建			建築調	構座「建築施工 ◇ ~ 編集 → 発行	」(第3版)、市ヶ谷	出版社、中澤明夫、角田誠共著、(「建築工事施工管理指針、上下巻」社 S材料」  彰国社  - 野口書文(チカ共薬)							
	Teaching Matérials 団法人建築協会 編集・発行、「ベーシック建築材料」彰国社、野口貴文ほか共著) Instructor NAKAGAWA Hajime,YAMAGUCHI Shuichi												
Course Objectives													
<ul> <li>(1) Learn about the materials characteristics, construction methods and quality control regarding the finishing of construction work.</li> <li>(2) To acquire basic engineering knowledge of each work in Japanese construction production on mainly building finishing.</li> <li>(3) To understand the concept of process management by the network approach, and be able to create a simple network.</li> </ul>													
Rubric													
			E>	Excellent		Good			Insufficient				
Achievement 1			са	ne student car alculation of p network, bar c		The student can do a calculation of process chart (network, bar chart).			The student can not do a calculation of process chart (network, bar chart).				
Achievement 2			Tł ur wa	ne student can nderstand the aterproofing a onstruction ca	n fully contents of and roof	The student can understand the contents of waterproofing and roof construction can.							
Achievement 3			ur in	The student can sufficiently understand the contents of the interior, exterior work, and equipment work.			interior,	exterior	The student can not understand the contents of the interior, exterior work, and equipment work.				
Achievement 4			ur	The student can sufficiently understand the contents of Hi- RC construction.				The student can not understand the contents of Hi-RC construction.					
Assigne	d Depar	tment Ob	oject	tives									
Teachin	ng Metho	d											
Outline constru produc			course, the student acquires knowledge of the present situation of the Japanese construction industry, ction production, the temporary construction methods and construction works related to architectural es, and the management methods are focusing on quality. To understand the network method for ion control. tructors (Taniguchi and Nakagawa) have experience in design supervision at construction sites of companies, and through the lectures and exercises transmit to the students their knowledge.										
Style		Lectures	and	fieldwork at a	a construction site	e tours to deepe	n underst		Yamaguchi is in charge of 12				
Style         weeks and exercises are conducted by Nakagawa, 3 weeks.           Notice         When architecture is actually built that the goal is achieved. Building production is a compilation of the knowledge acquired in the previews academic years: structures, materials, and design. This subject is a required course but, in principle, no supplementary instruction will be provided for absences. Students attendance is required, and only a maximum of 5 absences is excused.													
Charact	eristics	of Class /	' Div	vision in Lea	arning								
🗆 Active			□ Aided by ICT		☑ Applicable to Remote Class		Class	☑ Instructor Professionally Experienced					
Course	Plan												
			Ther				Goals						
2nd Semeste r	3rd Quarter	1st	Network process (1) Progress management and the diff between a bar chart and network p Network progress schedule, calcula duration and C.P.M (critical pass m			rogresses. ition of	To understand and execute network progress schedule, calculation of duration and C.P.M (critical pass method).						
		2nd	Network process (2) By using a real example of networ schedule of buildings explains the c of the building work.				To understand the network progress schedule of buildings explains the cycle progress of the building work.						
		3rd	Roofing and waterproofing works (1 Outline and types of roofing and wa work.			1) aterproofing	To understand the types of roofing and waterproofing work.						
		4th	Diffe surfa	erproofing wo rrent kinds of ace preparatic agement esse	roof ásphalt wate on, curing and cor	erproofing, Instruction	To understand the different kinds of roof asphalt waterproofing, surface preparation, curing and construction management essential points.						
		5th	How cons of pl	inishing and Plastering work low to think about general finishing work and onstruction management important points, types f plastering work and construction management ssential points.				To understand general finishing work and construction management important points, types of plastering work and construction management essential points.					
		6th	Cons	Ii-RC construction Construction from the factory production of the recast structural elements of the super-high-rise einforced concrete (Hi-RC) construction.				To understand construction from the factory production of the precast structural elements of the super-high-rise reinforced concrete (Hi-RC) construction.					

		7th	Exercises (1) To solve the exercises about the co from weeks 1 to 6, and a level 2 ar test (subject IV) problems.					
		8th	Mid-term Exam					
	4th Quarter	9th	Tile and Masonry works Tile work: material characteristics, tiling system, and prefabricated tile Masonry work: wet and dry system concrete (PCa) prefabricated syster	system. , precast	To understand the characteristics of tile and masonry works.			
		10th	Fittings, Glazing and Metalworks Wood and metal fittings. Different t characteristics of glass. Outline of N	types and Aetalwork.	To understand the characteristics of Wood and metal fittings, the different types of glass, and Metalwork.			
		11th	Interior finishing work Wall, floor, ceiling surface and inter materials. Sick-buildings syndrome construction management essential	e and	To understand the characteristics of walls, floor, ceiling surface and interior finishing materials, sick-building syndrome, and construction management essential points.			
		12th	Painting work Outline of painting work inside and building. Different kinds of painting them and construction managemer points.	, how to use	To understand the characteristics of painting work inside and outside of the building, the different kinds of painting, how to use them, and construction management essential points.			
		13th	Building services and equipment we Outline of building services and equ Different kinds and the relationship building services and equipment we	Jipment work. between	To understand the characteristics of building services and equipment work, the different kinds and the relationship between building services, and equipment work.			
		14th	Exercises (2) Students solve the exercises that le week 9 to 13 and level 2 architect l (subject IV) problems.	earned from license test	To review the content learned from week 9 to 13.			
		15th	Exercises (3) Students solve the exercises that le level 2 architect license test (subjec problems.	earned and ct IV)	To review the content learned.			
		16th	End-term Exam					
Evaluation Method and Weight (%)								
			Examination Assignments			Total		
Subtotal			70	30		100		
Basic Prof	iciency		0 0			0		
Specialize	d Proficier	псу	70 30			100		
Cross Are	a Proficier	ю	0 0			0		