Akashi College			Year 2024				Course Laboratory Experiments in Architectural Engineering A						
Course In	nformat	tion											
Course Code 6421					Course Categor	ry	Specialized / Compulsory						
Class Forma	at	Experim	ent			Credits		School Credit: 1					
Department	t	Architec	ture			Student Grade		4th					
Term		First Ser	neste	r		Classes per We	eek	ek 2					
Textbook a Teaching Ma				•									
Instructor		KAKUNO Yoshinori,NAKAGAWA Hajime											
Course O	biective	es											
1) Understa 2) Understa purpose.	and the nand the nand the nanding th	nechanical nechanical	prope	erties of rein		eams and steel b	oeams,	their stru	nd purpose. ctural experiment method, and eport using the results of the				
Rubric													
			Ideal Level			Standard Level			Unacceptable Level				
1) Materials	1) Materials Experiments		Can well understand the materials experiment method and purpose.			Can understand the materials experiment method and purpose.			Can not understand the materials experiment method or purpose.				
2) Structural Experiments			Can well understand the structural experiment method and purpose.			Can understand the structural experiment method and purpose.			Can not understand the structural experiment method and purpose.				
3) Experiments Reports			Can well elaborate a report using the results of the experiments.			Can elaborate a report using the results of the experiments.		rt using eriments.	Can not elaborate a report using the results of the experiments.				
Assigned	Depart	ment Ob	ojecti	ives									
Teaching	Metho	d											
Outline loading e understar system(k supervision their know Students experime		s are expected to understand and describe the purpose, method, summary of results for each ent performed. Experiments are conducted in groups, and each group has to elaborate a report about											
the exper reports at To unders		eriments performed. Also, the students will elaborate reports about the assignment. The submitted are evaluated mutually based on the course rubric. In restand the relation between the lectures and the experiments. Berly execute the experiments according to the specified test method. Each student should keep of the experiment's data, and reflect on the results in their reports. The students should bring their											
		calculato appropri	or to t ate at	he lessons. ttitudes con	They should also cerning the praction	take care of safe	tv and	wear app	ropriate clothing and present absences will be excused				
Character	ristics c	of Class /	Divi	ision in Le	earning	T							
☑ Active Learning				Aided by ICT			o Remo	☐ Instructor Professionally Experienced					
Course Pl	lan												
			Theme				Goals						
	1st Quarter	1st	Course outline explanation Experiments plan and schedule.			Explanation abou		ation abo	t the Experiments and Schedule				
		2nd		riment 1 pai ination of ur	rt 1 nit volume mass s	and and gravel	To und of unit	To understand the purpose, method, and results of unit volume mass experiment.					
		3rd	Experiment 1 part 2 Class divided into groups, Group A experiment 1 , Group B works on t		works on Summarize the e write a report about		arize the	xperiments in groups. xperiment results in a report and out the assignment.					
11		4th	Experiment 1 part 3 Class divided into groups, Group B works on experiment 1 , Group A works on the assignment.			To conduct the experiments in groups. Summarize the experiment results in a report and write a report about the assignment.							
Semeste r		5th	Experiment 1 part 1 Screening of sand and gravel test explanation			To understand the purpose, method and the results of the aggregate sieving test.							
		6th	Class	experiment 2 part 2 Class divided into groups, Group A works on Experiment 2 , Group B works on the assignment.			To conduct the experiments in groups. Summarize the experiment results in a report and write a report about the assignment.						
		7th	Experiment 2 part 2 Class divided into groups, Group B works on experiment 2 , Group A works on the assignment.				To conduct the experiments in groups. Summarize the experiment results in a report and write a report about the assignmnet.						
		8th	Creating an experiment report				To understand the experiment results through the repot.						
	!nd)uarter	9th	Experiment 3 part 1 Concrete slump test explanation				To understand the purpose, method, and results of the concrete slump test.						

1		10th	Experiment 3 par Class divided into experiment 2 , G	t 2 groups, Group A roup B works on t	works on he assignment.	To conduct the experiments in groups. Summarize the experiment results in a report and write a report about the assignment.				
		11th	Experiment 3 par Class divided into experiment 2, G	t 3 groups, Group B roup A works on t	works on he assignment.	To conduct the experiments in groups. Summarize the experiment results in a report and write a report about video watched.				
		12th	Mixture Design Explanation on h mixture.	ow to design the	concrete	To understand the method of compounding as specified by JASS 5.				
		13th	Experiment 4 par Concrete compre	t 1 ssion strength te	st	To understand the purpose, method, and results of concrete compressive strength test.				
		14th	Experiment 4 par Class divided into experiment 2, G	groups, Group A	works on he assignment.	To conduct the experiments in groups. Summarize the experiment results in a report and write a report about the assignment.				
		15th	Experiment 4 part 3 Class divided into groups, Group B works on experiment 2 , Group A works on the assignment.			To conduct the experiments in groups. Summarize the experiment results in a report and write a report about the assignment.				
		16th	No end-term Exa							
Evaluation Method and Weight (%)										
		Examination	Assigments	Mutual Evaluations between students	Behavior	Portfolio	Other	Total		
Subtotal		0	100	0	0	0	0	100		
Basic Proficiency		0	0	0	0	0	0	0		
Specialized Proficiency		0	100	0	0	0	0	100		
Cross Area Proficiency		0	0	0	0	0	0	0		