

Akashi College		Year	2023		Course Title	Practice of Surveying	
Course Information							
Course Code		5132		Course Category		Specialized / Compulsory	
Class Format		Practical training		Credits		School Credit: 1	
Department		Civil Engineering		Student Grade		1st	
Term		First Semester		Classes per Week		2	
Textbook and/or Teaching Materials		Handouts					
Instructor		IKUTA Ami,YEGANE GHEZELLOO					
Course Objectives							
1) Understand distance survey and can measure using equipment. 2) Understand angle measurement and can measure using equipment. 3) Understand leveling and can measure using equipment. 4) Can summarize results from practical trainings and reflect on them.							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1		Fully understand distance survey and can measure using equipment.		Understand distance survey and can measure using equipment.		Do not understand distance survey and cannot measure using equipment.	
Achievement 2		Fully understand angle measurement and can measure using equipment.		Understand angle measurement and can measure using equipment.		Do not understand angle measurement and cannot measure using equipment.	
Achievement 3		Fully understand leveling and can measure using equipment.		Understand leveling and can measure using equipment.		Do not understand leveling measurement and cannot measure using equipment.	
Achievement 4		Can summarize results from practical trainings and appropriately reflect on them.		Can summarize results from practical trainings and reflect on them.		Cannot summarize results from practical trainings or reflect on them.	
Assigned Department Objectives							
Teaching Method							
Outline		Students will experience theories of field survey through practical trainings.					
Style		This course will be conducted by more than one faculty member, in practical trainings and exercise styles. The overall evaluation will be based on 70% on the submission of reports and other assignments, and 30% on attitude toward class activities. The minimum score for a pass will be 60%. However, in cases where reports., etc. are inadequate, students must re-submit them, or will be given 59 points or less for their evaluation.					
Notice		Students must wear clothing (laboratory attire) and shoes (running shoes) that are appropriate for practice. Commit to the basics and measure accurately, with an understanding of the purpose. Fulfill one's role in a cooperative work and be attentive to safety. Course content and time are subject to change depending on weather conditions. Students who miss 1/5 or more of classes will not be eligible for evaluation.					
Characteristics of Class / Division in Learning							
☐ Active Learning		☐ Aided by ICT		☒ Applicable to Remote Class		☐ Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester	1st Quarter	1st	Frame of mind for practical trainings, and how to write reports		Understand the frame of mind for practical trainings, and can explain how to write a report.		
		2nd	Distance survey (measurement by pace)		Can conduct distance survey measuring distance by pace.		
		3rd	" (steel tape distance measuring)		Can conduct distance survey measuring distance using steel tape.		
		4th	" (report writing)		Can summarize results from practical trainings and reflect on them.		
		5th	Angle measurement (practice installing and reading total stations)		Can install and read total stations.		
		6th	" (single measurement method)		Can conduct angle measurement using single measurement method.		
		7th	" (single measurement method and direction method)		Can conduct angle measurement using single measurement method and direction method.		
		8th	" (practice direction method and theodolite)		Can conduct angle measurement using direction method.		
	2nd Quarter	9th	" (report writing)		Can summarize results from practical trainings and reflect on them.		
		10th	Leveling (lifting type)		Can conduct leveling using lifting type.		
		11th	" (lifting type and instrumental height system)		Can conduct leveling using lifting type and instrumental height system.		
		12th	" (instrumental height system)		Can conduct leveling using instrumental height system.		
		13th	Drawing and exercise (calculation of area)		Can calculate the area using drawings.		
		14th	" (area and mass calculation)		Can calculate the area and mass using drawings.		

		15th	" (planimeter)			Can explain how to calculate the area using a planimeter.	
		16th	No final exam				
Evaluation Method and Weight (%)							
	Examination	Report Assignments	Mutual Evaluations	Attitude	Portfolio	Other	Total
Subtotal	0	70	0	30	0	0	100
Basic Proficiency	0	10	0	10	0	0	20
Specialized Proficiency	0	50	0	10	0	0	60
Cross-Disciplinary Proficiency	0	10	0	10	0	0	20