

Akashi College		Year	2024	Course Title	Exercises of Surveying I
Course Information					
Course Code	6230		Course Category	Specialized / Compulsory	
Class Format	Practical training		Credits	Academic Credit: 2	
Department	Civil Engineering		Student Grade	2nd	
Term	First Semester		Classes per Week	2	
Textbook and/or Teaching Materials	Handout				
Instructor	IKUTA Ami, OSHIRO Yuki, KAKUNO Yoshinori				
Course Objectives					
Understand the procedures for control point survey and topographic survey, and can apply the surveying theory.					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Understand the procedures for control point survey, can calculate accurately, and can apply the surveying theory.		Understand the procedures for control point survey, and can apply the surveying theory.		Do not understand the procedures for control point survey, or apply the surveying theory.
Achievement 2	Fully understand topographical surveying, and can perform survey with equipment.		Understand topographical surveying, and can perform survey with equipment.		Do not understand topographical surveying, and cannot perform survey with equipment.
Assigned Department Objectives					
Teaching Method					
Outline	Learn how to set out to the site, and become able to practically apply the surveying theory.				
Style	Practical trainings and exercises will be conducted by several faculty members. Exercises are carried out together with the reviewing of class contents. The evaluation will be based 80% on reports, and 20% on attitude toward class activities. 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	Commit to the basics and make accurate measurements, and improve the quality of deliverables. Be attentive to safety. This course's content will amount to 90 hours of study in total. These hours include the learning time guaranteed in classes and the standard self-study time required for pre-study / review, and completing assignment reports. Students who miss 1/3 or more of classes will not be eligible for evaluation.				
Characteristics of Class / Division in Learning					
<input 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	Traverse surveying (methods)	Can explain the classification by the size of an area, order, method, purpose, and law. Can explain the survey system (national control points, etc.).	
		2nd	Traverse surveying (determining the location of points, placing marks)	Can explain the types, procedures, and calculation method for traverse surveying	
		3rd	Traverse surveying (measuring distance and angles)	Can explain the types, procedures, and calculation method for traverse surveying	
		4th	Traverse surveying (measuring distance and angles)	Can explain the types, procedures, and calculation method for traverse surveying	
		5th	Traverse survey (adjustment calculation)	Can explain the types, procedures, and calculation method for traverse surveying	
		6th	Topographic survey (using plane table)	Can explain the topographic surveying method. Can explain the types, procedures and methods of traverse surveying.	
		7th	Topographic survey (using plane table)	Can explain the topographic surveying method. Can explain the types, procedures and methods of traverse surveying.	
		8th	Topographic survey (using plane table)	Can explain the topographic surveying method. Can explain the types, procedures and methods of traverse surveying.	
	2nd Quarter	9th	Topographic survey (using plane table)	Can explain the topographic surveying method. Can explain the types, procedures and methods of traverse surveying.	
		10th	Topographic survey (using total station)	Can explain the topographic surveying method. Can explain the types, procedures and methods of traverse surveying. Can explain the survey system (national control points, etc.).	
		11th	Topographic survey (using total station)	Can explain the topographic surveying method. Can explain the types, procedures and methods of traverse surveying.	
		12th	Topographic survey (using total station)	Can explain the topographic surveying method. Can explain the types, procedures and methods of traverse surveying.	

		13th	Topographic survey (using total station)	Can explain the topographic surveying method. Can explain the types, procedures and methods of traverse surveying.
		14th	Topographic survey (using total station)	Can explain the topographic surveying method. Can explain the types, procedures and methods of traverse surveying.
		15th	Surveying exercise	Can explain the topographic surveying method. Can explain the types, procedures and methods of traverse surveying.
		16th	No final exam	

Evaluation Method and Weight (%)

	Exams	Reports	Mutual Evaluations	Attitude	Portfolio	Other	Total
Subtotal	0	80	0	20	0	0	100
Basic Proficiency	0	20	0	5	0	0	25
Specialized Proficiency	0	50	0	10	0	0	60
Cross-Disciplinary Proficiency	0	10	0	5	0	0	15