

SE 471 Survey Camp

Credit and Contact hours 3 / 1(Lectures); 0(Tutorials); 2(Field Work)

Required, or Elective Required for a BSCE degree

Course Description Introduction; practical training on precise leveling & trigonometry; measuring distances using electronic distances measurements instrument; measurement of vertical & horizontal angles; GNSS observation & processing, observation treatment and electronic map drawings; computer applications.

Prerequisites or Co-requisites SE 413

Course Learning Outcomes Students completing this course successfully will be able to

Course Learning Outcomes	<i>Related Student Outcomes (SO)</i>
CLO1: Design and plan surveying project	SO2
CLO2: Conduct field observations using survey instruments to produce final project group report	SO5
CLO3: Use computer software in processing, analyzing data and producing map.	SO6
CLO4: Write and present a group final report on the project	SO3

Student Outcomes SO2: an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety;
 SO3: an ability to communicate effectively with a range of audiences.
 SO5:an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
 SO6 :an ability to develop and conduct appropriate experimentation, analyze and interpret data and use engineering judgment to draw conclusions

Topics Covered	List of Topics		Related CLOs
	Introduction and project description and planning		CLO1
	practical training on precise leveling & trigonometry		CLO2
	measuring distances using electronic distances measurements instrument;		CLO2
	measurement of vertical & horizontal angles		CLO2
	GNSS observation & processing		CLO3
	Computer applications.		CLO3
	observation treatment, electronic map drawings and final report writing		CLO4
Textbook(s) and Other Required Material	Textbook:		
Grading System	Course Work	60%	
	Presentation and Oral Exam	40%	
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Date of Review	Nov, 2020		