



Jordan University of Science and Technology
Faculty of Engineering
Civil Engineering Department

CE343 Surveying Laboratory - JNQF Level: 7

First Semester 2024-2025

Course Catalog

1 Credit Hours. 1 Credit hours (3 h lab). Chain surveying, the use of the level and leveling staff; setting out levels; profile and cross-section leveling. The theodolite and its use traverse surveying. Tachometry and electronic distance measurements. Measurement of areas with planimeter. The use of laser theodolite and level.

Teaching Method: Blended

Text Book

Title	Fundamentals of Surveying
Author(s)	M. Schmidt and K. Wong
Edition	3rd Edition
Short Name	1
Other Information	

Instructor

Name	Miss Maha Mahmoud
Office Location	C6 L2
Office Hours	Sun : 10:30 - 11:30 Sun : 12:30 - 13:30 Mon : 12:00 - 13:00 Tue : 10:30 - 11:30 Tue : 12:30 - 13:30 Wed : 12:00 - 13:00
Email	mamahamoud@just.edu.jo

Instructor

Name	Miss Mysa AlKhasoneh
Office Location	-

Office Hours	Sun : 12:30 - 14:00 Mon : 10:00 - 11:30 Tue : 12:30 - 14:00 Wed : 10:00 - 11:30
Email	makhassawneh@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Mon : 14:00 - 17:00 Room: LAB Section 2: Lecture Time: Wed : 14:00 - 17:00 Room: LAB Section 3: Lecture Time: Sun : 14:30 - 17:00 Room: LAB

Prerequisites		
Line Number	Course Name	Prerequisite Type
233411	CE341 Surveying	Pre./Con.

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction: Lab Regulations, Report Technical Writing, Procedures, and Policies	
Weeks 2, 3	Linear measurements, obstacles, and pace calibration, prismatic square.	
Week 4	Chain survey	
Weeks 5, 6	Leveling and contour mapping	
Weeks 7, 8	Theodolite and angle measurements	
Week 9	Practical midterm exam	
Week 10	Tachometer and vertical measurements and planimeter	
Weeks 11, 12	Total Station and setting out of a horizontal curve	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Be able to apply knowledge of mathematics, science, and engineering [1L7K1]	20%	
Be able to use the principle surveying instruments in civil engineering projects . [1L7S1]	20%	

Be able to implement the surveying theories given in the surveying course [1L7K1]	20%	
The student will be able to interpret laboratory results and prepare effective report [1PI-3a]	20%	
The students will be demonstrate the capacity to work independently and in a team [1PI-5a]	20%	

Relationship to Program Student Outcomes (Out of 100%)											
PI-1a	PI-2a	PI-2b	PI-2c	PI-2d	PI-3a	PI-4a	PI-4b	PI-5a	PI-6a	PI-6b	PI-7a
					20			20			

Relationship to NQF Outcomes (Out of 100%)	
L7K1	L7S1
40	20

Evaluation	
Assessment Tool	Weight
final exam	100%

Policy	
policy -1	The course contributes to building the fundamental basic concepts and applications of Surveying Science.

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