

Course Description Form Soil Leveling Technology

1. Course Name:					
Soil Leveling Technology					
2. Course Code:					
SSD-1101					
3. Semester / Year:					
First semester / First stage					
4. Description Preparation Date:					
15/1/2025					
5. Available Attendance Forms:					
Attending					
6. Number of Credit Hours (Total) / Number of Units (Total)					
5 hours (2 Theoretical and 3 practical) 3.5 units					
7. Course administrator's name (mention all, if more than one name)					
Name: Aidel Kadum Jassim Al-shamary Email: adelkadumalshamary@uodiyala.edu.iq					
8. Course Objectives					
Course Objectives		<p>The student gets to know the tools used in engineering drawing. The student gets to know the scale of drawing. The student will be able to draw, able to imagine drawing, and the student to recognize the types of lines when drawing</p> <p>The student will be familiar with the tools used in surveying, measuring length, and drawing a linear map</p>			
9. Teaching and Learning Strategies					
Strategy		A 15-week attendance lecture, interspersed with two monthly exams, daily exams, and scientific reports			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Definition of Plan surveying and its importance	Lecture with explanation presentation	quiz
2	2		Survey methods	Lecture with explanation presentation	quiz
3	2		Types of space	Lecture with explanation presentation	quiz
4	2		Measurement units	Lecture with explanation presentation	quiz
5	2		The English system of grandmothers	Lecture with explanation presentation	quiz
6	2		The metric system of units		
7	2		Revision Measuring distances on flat terrain	Lecture with explanation	quiz

8	2		Measuring distances on flat terrain	presentation Lecture with explanation presentation	quiz
9	2		Measuring horizontal distances On accounts sloping terrain	Lecture with explanation presentation	quiz
10	2		Columns to measure areas	Lecture with explanation presentation	quiz
11	2		Obstacles and their types	Lecture with explanation presentation	quiz
12	2		Settlement and its importance in agriculture	Lecture with explanation presentation	quiz
13	2		Types of leveling devices Topographic survey	Lecture with explanation presentation	quiz
14	2		Scanning with flat plate		
15	2		Areas and volumes		

practical part

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Measure distances in steps Learn about engineering drawing tools	Lecture with explanation presentation	Exam and work report
2	3		Measuring with tape and orienting with signs Types of engineering drawing lines	Lecture with explanation presentation	Exam and work report
3	3		Column drop experiment Dimensions and how to sign them	Lecture with explanation presentation	Exam and work report
4	3		Column erection experience Performing some simple engineering operations	Lecture with explanation presentation	Exam and work report
5	3		Experiment with obstacle distances Arcs, curves and tangents	Lecture with explanation presentation	Exam and work report
6	3		Experience obstacles Projection and explanation	Lecture with explanation	Exam and work report

			of the three projections	presentation	
7	3		Leveling device experience First Mid Exam	Lecture with explanation presentation	Exam and work report
8	3		Leveling device experience Settlement device accounts Deducing the three projections from the solid	Lecture with explanation presentation	Exam and work report
9	3		Arithmetic applications The three projection operations of simple geometric shapes	Lecture with explanation presentation	Exam and work report
10	3		Arithmetic applications Conclusion of the third site	Lecture with explanation presentation	Exam and work report
11	3		Arithmetic applications Kinds of sectors	Lecture with explanation presentation	Exam and work report
12	3		Arithmetic applications Exercises on segments and segmentation	Lecture with explanation presentation	Exam and work report
13	3		Collect field data Engineering perspective	Lecture with explanation presentation	Exam and work report
14	3		Calculations of areas and volumes Second Mid Exam	Lecture with explanation presentation	Exam and work report

11. Course Evaluation

Examinations

Monthly exams, quizzes, and participations discussion questions inside the class

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Iraqi academic scientific journals Flat area. Fawzi Al-Khalisi. College of Engineering - University of Baghdad.
Main references (sources)	Engineering and cadastral surveying. Ziad Abdul Jabbar Al-Bakr
Recommended books and references (scientific journals, reports...)	Iraqi academic Journal
Electronic References, Websites	Soil Science Society of America Library Genesis

