

Republic of Iraq

The Ministry Of Higher
Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala

College: Agriculture

Department: Field Crops

Stage: first

Lecturer name: Aidel Kadum

Jassim Al-shamary

Qualification: PhD. Mechanical
Engineering

Place of work: Coll. Of Agriculture

Flow up of implementation celli pass play

Course Instructor	Dr.Aidel Kadum Jassim Al-shamary				
E-mail	adelkadumalshamary@uodiyala.edu.iq				
Title	Soil Leveling Technology				
Course Coordinator	Autumn semester				
Course Objective	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 The student will be familiar with the tools used in surveying, measuring length, and drawing a linear map				
Course Description	The student is able to identify the main axis of the project and the student is familiar with drawing using graph paper The student learns about the concept of engineering drawing and his ability to use drawing tools.				
Textbook	1- Iraqi academic scientific journals 2- 1- Flat area. Fawzi Al-Khalisi. College of Engineering - University of Baghdad. 3- 2- Engineering and cadastral surveying. Ziad Abdul Jabbar Al-Bakr				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20 %	15 %	5 %	10 %	50 %
General Notes					

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week	Date	Topics Covered	Practical Part
1		Definition of Plan surveying and its importance	Measure distances in steps Learn about engineering drawing tools
2		Survey methods	Measuring with tape and orienting with signs Types of engineering drawing lines
3		Types of space	Column drop experiment Dimensions and how to sign them
4		Measurement units	Column erection experience Performing some simple engineering operations
5		The English system of grandmothers	Experiment with obstacle distances Arcs, curves and tangents
6		The metric system of units	Experience obstacles Projection and explanation of the three projections
7		Revision Measuring distances on flat terrain	Leveling device experience First Mid Exam
8		Measuring distances on flat terrain	Leveling device experience Settlement device accounts Deducing the three projections from the solid
9		Measuring horizontal distances on accounts sloping terrain	Arithmetic applications The three projection operations of

			simple geometric shapes
10		Columns to measure areas	Arithmetic applications Conclusion of the third site
11		Obstacles and their types	Arithmetic applications Kinds of sectors
12		Settlement and its importance in agriculture	Arithmetic applications Exercises on segments and segmentation
13		Types of leveling devices Topographic survey	Collect field data Engineering perspective
14		Scanning with flat plate	Arithmetic applications Perspective drawing of the three views Revision
15		Areas and volumes	Calculations of areas and volumes Second Mid Exam



Instructor Signature:
Dr. Aidel Kadum Jassim Al-shamary
15/1/2025



Dean Signature
Prof. Dr. Raaed Ibrahim Khalil
15/1/2025