

Republic of Iraq

The Ministry Of Higher  
Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala

College: Agriculture

Department: animal production

Stage: first

Lecturer name: Basim about abbas

Academic Status: prof.

Qualification: PhD

Place of work: College of Agriculture

## Flow up of implementation celli pass play

Course Instructor	Basim About Abbas
E-mail	basimabbas@uodiyala.edu.iq
Title	Plan surveying
Course Coordinator	First course
Course Objective	Upon completion of this course, the student will be able to: <ol style="list-style-type: none"><li>1. Learn about the methods of measuring area and the tools used in measurement.</li><li>2. Learn about the survey methods.</li><li>3. Learn the types of space.</li><li>4. Learn Measurement units.</li><li>5. Using Measuring with tape and orienting with signs .</li></ol>
Course Description	<p>surveying It is the science that studies how to determine the relative locations of points of natural and artificial landmarks on the surface of the earth. Or a village, and how to transfer them to the map in a miniature form, while maintaining the fixed relative relationships between the details of these landmarks. Surveying is a science that deals with making measurements of horizontal and vertical distances, angles and directions, and fixing points according to previous measurements.</p> <p>The main objective of studying surveying sciences and their various applications is to obtain the basic information and data necessary for preparing and drawing maps. By means of these maps, the locations of engineering works can be fixed, and projects can be planned and constructed such as dams, transportation routes and bridges. Surveying is also the means of implementing operations related to lands, for example, division, settlement and reclamation. Therefore, the importance of surveying and surveying maps and their overlap with various applied sciences can be accomplished in fixing the required locations in nature, based on known points, determining and designating land locations and their heights above sea level, finding land areas directly or from maps,</p>

	giving an idea of water resources and their distance from agricultural lands, helping in planning irrigation and drainage networks, and establishing dams and water reservoirs, planning the locations of agricultural roads of all kinds, determining the types and densities of vegetation cover for different areas using aerial photographs, and providing the necessary information for establishing agricultural buildings.				
<b>Textbook</b>	<ul style="list-style-type: none"> <li>• Plan surveying, Faculty of Agriculture - Alexandria University, 2018 .</li> <li>• The foundations of the level and topography - Riyad Saleh Al-Khafaf / 2000 .</li> </ul>				
<b>Course Assessments</b>	<b>Term Tests</b>	<b>Laboratory</b>	<b>Quizzes</b>	<b>Project</b>	<b>Final Exam</b>
	<b>(20%)</b>	<b>(15%)</b>	<b>(5%)</b>	<b>(%10)</b>	<b>(50%)</b>
<b>General Notes</b>	<b>Type here general notes regarding the course</b>				

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week	Date	Topics Covered	Practical Part
1		Definition of Plan surveying and its importance	Measure distances in steps
2		Survey methods	Measuring with tape and orienting with signs
3		Types of space	Column drop experiment
4		Measurement units	Column erection experience
5		The English system of units	Experiment with obstacle distances
6		The metric system of units	Experience obstacles 2
7		Measuring distances on flat terrain	Leveling device experience
8		Measuring horizontal distances on sloping terrain	Settlement device accounts
9		Columns to measure areas	Arithmetic applications
10		Obstacles and their types	Arithmetic applications
11		Settlement and its importance in agriculture	Arithmetic applications
12		Types of leveling devices	Arithmetic applications
13		Topographic survey	Arithmetic applications
14		Scanning with flat plate	Arithmetic applications
15		Areas and volumes	Calculations of areas and volumes



**Instructor Signature:**  
**Prof. Dr. Basim Aboud Abbas**  
**15/1/2025**



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