Course Description Form

1. Course Name:
Plan surveying
2. Course Code:
COA-1104
3. Semester / Year:
First semester/ 2024-2025
4. Description Preparation Date:
15/1/2025
5. Available Attendance Forms:
Full time (theoretical lecture + practical) weekly
6. Number of Credit Hours (Total) / Number of Units (Total)
175 hours – 7 units
7. Course Administrator's Name (Mention All, If More Than One Name)
Name: Basim Aboud Abbas **Email:** basimabbas@uodiyala.edu.iq
8. Course Objectives
Upon completion of this course, the student will be able to: 1. Learn about the methods of measuring area and the tools used in measurement. 2. Learn about the survey methods. 3. Learn the types of space. 4. Learn Measurement units. 5. Using Measuring with tape and orienting with signs .
9. Teaching and Learning Strategies

Main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, homework's and examples. Practical examples help students to understand the course material.

10. Course Structure

Theoretical part

Week	Hours	Required learning outcomes	Unit or Subject	Learning Method	Evaluation Method
1	2	Definition of Plan surveying and its importance	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
2	2	Survey methods	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
3	2	Types of space	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
4	2	Measurement units	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
5	2	The English system of units	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
6	2	The metric system of units	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
7	2	Measuring distances on flat terrain	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
8	2	Measuring horizontal distances on sloping terrain	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
9	2	Columns to measure areas	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
10	2	Obstacles and their types	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
11	2	Settlement and its importance in agriculture	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
12	2	Types of leveling devices	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
13	2	Topographic survey	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports

14	2	Scanning with flat plate	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports
15	2	Areas and volumes	Plan surveying	Lecture Dialogue & discussion Brainstorming	Daily, monthly and final exams and daily reports

Practical part					
Week	Hours	Required learning outcomes	Unit or Subject Name	Learning Method	Evaluation Method
1	3	Measure distances in steps	Plan surveying	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
2	3	Measuring with tape and orienting with signs	Plan surveying	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
3	3	Column drop experiment	Plan surveying	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
4	3	Column erection experience	Plan surveying	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
5	3	Experiment with obstacle distances	Plan surveying	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
6	3	Experience obstacles 2	Plan surveying	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
7	3	Leveling device experience	Plan surveying	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
8	3	Settlement device accounts	Plan surveying	Computer 1	Observation Dialogue & discussion
9	3	Arithmetic applications	Plan surveying	Dialogue & discussion	and final exams and daily reports
10	3	Arithmetic applications	Plan surveying	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports

11	**3**	**Arithmetic applications**	**Plan surveying**	**Observation Dialogue & discussion**	**Daily, monthly and final exams and daily reports**
12	**3**	**Arithmetic applications**	**Plan surveying**	**Observation Dialogue & discussion**	**Daily, monthly and final exams and daily reports**
13	**3**	**Arithmetic applications**	**Plan surveying**	**Observation Dialogue & discussion**	**Daily, monthly and final exams and daily reports**
14	**3**	**Arithmetic applications**	**Plan surveying**	**Observation Dialogue & discussion**	**Daily, monthly and final exams and daily reports**
15	**3**	**Calculations of areas and volumes**	**Plan surveying**	**Observation Dialogue & discussion**	**Daily, monthly and final exams and daily reports**

11. Course Evaluation

Examination
Monthly & daily exams with discussion questions inside the lecture .
The degree of participation in the questions related to the subject.

12. Learning and Teaching Sources

Required Textbooks (Curricular Books, If Any)	Plan surveying, Faculty of Agriculture - Alexandria University, 2018
Main References (Sources)	The foundations of the level and topography - Riyad Saleh Al-Khafaf / 2000
Recommended Books and References (Scientific Journals, Reports...)	Iraqi academic journal
Electronic References, Websites	