

Course Description Form

1. Course Name:	
Engineering Drawing	
2. Course Code:	
INGR245	
3. Semester / Year:	
Second semester (spring)/2023-2024	
4. Description Preparation Date:	
1/2/2024	
5. Available Attendance Forms:	
Combined (Attendance + distance education)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 practical hours / 1.5 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Saleh Sabri Ali	
Email: ssah69@uomosul.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> - Graduating agricultural engineers and researchers to serve the agricultural sector. - Scientific cooperation with agricultural directorates and other parties with the aim of improving agricultural production in quantity and quality. - Investing in modern technology in the field of engineering drawing in order to develop education, training and research programmes. - Qualifying students to work according to the modern production system that relies on computers and information technology to operate. - Preparing an advanced technical staff in the field of engineering design and drawing to meet the needs of society.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> Interactive lecture Brainstorming Dialogue and discussion Practical exercises self-education

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3 Practical	a1:: Identify engineering drawing and its importance to the agricultural sector	An overview of the importance of engineering drawing and its relationship to agriculture	Practical lectures	Class and home assignments
2	3 Practical	b1: Identify the tools used in engineering drawing and the skills to use them practically	Engineering drawing tools and their uses	Practical lectures	Class and home assignments
3	3 Practical	b2: The student draws the frame, key of the painting, and how to write letters and numbers	Explain the dimensions of the painting And the information key And writing letters and numbers	Practical lectures	Class and home assignments
4	3 Practical	b3: Drawing types of lines And its uses in basic engineering processes	Types of geometric lines and their uses in engineering drawing	Practical lectures	Class and home assignments
5	3 Practical	b3: Drawing applied geometric shapes on arcs and tangents	Basic engineering processes (arcs and tangents)	Practical lectures	Class and home assignments
6	3 Practical	b3: Providing the student with skills handmade by drawing practical applications	Practical applications on Lines and arcs	Practical lectures	Class and home assignments
7	3 Practical	a2: Recognize the concept engineering projections and their types and its uses	Engineering projections	Engineering drawings that include the previous topics	Class test
8	3 Practical	b3: Providing the student with skills individual drawing of projections isometric engineering	Engineering projections Isometrics	Practical lectures	Class and home assignments
9	3 Practical	b3: Draw and conclude the third project in terms of two projections drawn with a goal developing the student's conceptual ability	Conclusion of the third projection in terms of the other two projections	Practical lectures	Class and home assignments
10	3 Practical	b3: Test and determine level the skills acquired by each student	First monthly exam	Engineering drawings Applied	Class test
11	3 Practical	b2: Recognize the concept geometric perspective and its types	Engineering perspective (isometric)	Practical lectures	Class and home assignments
12	3 Practical	b3: test the conceptual faculty for the student and its relationship to the subject of drawing geometric perspective	Applied drawings on engineering perspective	Practical lectures	Class and home assignments

13	3 Practical	b3: Tests individual skills for students	Applied drawings on isometric projections and the third projection	Practical lectures	Class and home assignments
14	3 Practical	b3: Drawing perspective isometrics in terms of all three projections	Isometric perspective and the three projections	Practical lectures	Class and home assignments
15	3 Practical	b3: Test and determine level the skills acquired by each student	Second monthly exam	Engineering drawings Applied	Class test

1. Course Evaluation

Seq.	Evaluating style	date	marks	Relative weight
1	Home works	Practical: week 1-14	10	10%
2	Monthly test 1	Week:7	10	10%
3	Monthly test 2	Week:15	10	10%
4	Class assignments	Week:1-14	10	10%
5	practical test	The week of the practical exam	20	20%
6	Final practical test	The week of the Practical exam	40	40%
	the total		100	100%

11. Learning and Teaching Resources

Required textbooks (curricular books, if a	Engineering drawing for agricultural college students, Dr. Nateq Sabri Hassan, 1990
Main references (sources)	Engineering drawing, Abdul Rasul Al Khafaf 1990
Recommended books and references (scientific journals, reports...)	Textbook of Engineering Drawing k. Venkata Reddy, 2008
Electronic References, Websites	https://www.youtube.com



Instructor of theoretical part

Salih sabri ali



Chairman of the scientific committee

Prof. Dr. Moafak mahmood ahmed

دكتور
سبىة خلف بدوى
رئيس قسم علوم الأغذية



Head of the department of Food science

Prof. Dr. Sumyia kalaf badawi