

## Course Description Form

<b>1. Course Name:</b>	
Engineering Drawing	
<b>2. Course Code:</b>	
ENGD118	
<b>3. Semester / Year:</b>	
First Semester (autumn)/2023-2024	
<b>4. Description Preparation Date:</b>	
1/2/2024	
<b>5. Available Attendance Forms:</b>	
Attendance	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
3 hours(practical )/ 1.5 units	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Ammar Wael Saleh Email: : <a href="mailto:ammarwael1800@uomosul.edu.iq">ammarwael1800@uomosul.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"><li>-Graduating agricultural engineers and researchers to serve the agricultural sector.</li><li>-Scientific cooperation with agricultural directorates and other parties with the aim of improving agricultural production in quantity and quality.</li><li>-Investing in modern technology in the field of engineering drawing in order to develop education training and research programmes.</li><li>-Qualifying students to work according to the modern production system that relies on computer and information technology to operate.</li><li>-Preparing an advanced technical staff in the field of engineering design and drawing to meet the needs of society.</li></ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	

<b>10. Course Structure</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	3 Practical	<b>a1:: Identify engineering drawing and its importance to the agricultural sector</b>	An overview of the importance of engineering drawing and its relationship to agriculture	Practical lectures	Class and home assignments
2	3 Practical	<b>b1: Identify the tools used in engineering drawing and the skills to use them practically</b>	Engineering drawing tools and their uses	Practical lectures	Class and home assignments
3	3 Practical	<b>b2: The student draws the frame, key of the painting, and how to write letters and numbers</b>	Explain the dimensions of the painting And the information key And writing letters and numbers	Practical lectures	Class and home assignments
4	3 Practical	<b>b3: Drawing types of lines And its uses in basic engineering processes</b>	Types of geometric lines and their uses in engineering drawing	Practical lectures	Class and home assignments
5	3 Practical	<b>b4: Drawing applied geometric shape on arcs and tangents</b>	Basic engineering processes (arcs and tangents)	Practical lectures	Class and home assignments
6	3 Practical	<b>b5: Providing the student with skills handmade by drawing practical applications</b>	Practical applications on Lines and arcs	Practical lectures	Class and home assignments
7	3 Practical	<b>a2: Recognize the concept engineering projections and their types and its uses</b>	Engineering projections	Engineering drawings that include the previous topics	Class test
8	3 Practical	<b>b6: Providing the student with skills individual drawing of projections isometric engineering</b>	Engineering projections Isometrics	Practical lectures	Class and home assignments
9	3 Practical	<b>b7: Draw and conclude the third project in terms of two projections drawn with a goal developing the student's conceptual ability</b>	Conclusion of the third projection in terms of the other two projections	Practical lectures	Class and home assignments
10	3 Practical	<b>b8: Test and determine level the skills acquired by each student</b>	First monthly exam	Engineering drawings Applied	Class test
11	3 Practical	<b>b9: Recognize the concept geometric perspective and its types</b>	Engineering perspective (isometric)	Practical lectures	Class and home assignments
12	3 Practical	<b>b10: test the conceptual faculty for the student and its relationship to the subject of drawing geometric perspective</b>	Applied drawings on engineering perspective	Practical lectures	Class and home assignments
13	3 Practical	<b>b11: Tests individual skills for students</b>	Applied drawings on isometric projections and the third projection	Practical lectures	Class and home assignments
14	3 Practical	<b>b12: Drawing perspective isometrics in terms of all three projections</b>	Isometric perspective and the three projections	Practical lectures	Class and home assignments
15	3 Practical	<b>b13: Test and determine level the skills acquired by each student</b>	Second monthly exam	Engineering drawings Applied	Class test

<b>1. Course Evaluation</b>				
<b>Seq.</b>	<b>Evaluating style</b>	<b>date</b>	<b>marks</b>	<b>Relative weight</b>
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%

<b>11. Learning and Teaching Resources</b>	
Required textbooks (curricular books, if any)	Engineering drawing for agricultural college students, Dr. Nates 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	<a href="https://www.youtube.com">https://www.youtube.com</a>



**Teacher of Substance**

**Assi. lec. Ammar Wael Saleh**

**Chairman of the Scientific Committee  
Water**

**Head of Soil Science and  
Resources**