

## Course Description Form

<b>1. Course Name:</b>	
Engineering Drawing	
<b>2. Course Code:</b>	
INGR245	
<b>3. Semester / Year:</b>	
Second semester (spring)/2023–2024	
<b>4. Description Preparation Date:</b>	
1/2/2024	
<b>5. Available Attendance Forms:</b>	
Combined (Attendance + distance education)	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
45 practical hours / 1.5 units	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Saleh Sabri Ali Email: <a href="mailto:ssah69@uomosul.edu.iq">ssah69@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 computers 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 Practica	<b>a1::</b> Identify engineering drawing and its importance to the agricultu sector	An overview of the importance of engineering drawing and it relationship to agriculture	Practical lectures	Class and home assignments
2	3 Practica	<b>b1:</b> 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 Practica	<b>b2:</b> 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 Practica	<b>b3:</b> 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 Practica	<b>b3:</b> Drawing applied geometric sha on arcs and tangents	Basic engineering processes (arcs and tangents)	Practical lectures	Class and home assignments
6	3 Practica	<b>b3:</b> Providing the student with skill handmade by drawing practical applications	Practical applications on Lines and arcs	Practical lectures	Class and home assignments
7	3 Practica	<b>a2:</b> Recognize the concept engineering projections an their types and its uses	Engineering projections	Engineering draw that include the previous topics	Class test
8	3 Practica	<b>b3:</b> Providing the student with skill individual drawing of projections isometric engineering	Engineering projections Isometrics	Practical lectures	Class and home assignments
9	3 Practica	<b>b3:</b> 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 Practica	<b>b3:</b> Test and determine level the skills acquired by each student	First monthly exam	Engineering draw Applied	Class test
11	3 Practica	<b>b2:</b> Recognize the concept geometric perspective and types	Engineering perspective (isometric)	Practical lectures	Class and home assignments
12	3 Practica	<b>b3:</b> test the conceptual faculty for the student and its relationship to t subject of drawing geometric perspective	Applied drawings on engineering perspective	Practical lectures	Class and home assignments
13	3 Practica	<b>b3:</b> Tests individual skills for students	Applied drawings on isometric projections and the third projection	Practical lectures	Class and home assignments
14	3 Practica	<b>b3:</b> Drawing perspective isometric terms of all three projections	Isometric perspective and the three projections	Practical lectures	Class and home assignments
15	3 Practica	<b>b3:</b> Test and determine level the skills acquired by each student	Second monthly exam	Engineering draw 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>
<b>1</b>	<b>Home works</b>	<b>Practical: week 1-14</b>	<b>10</b>	<b>10%</b>
<b>2</b>	<b>Monthly test 1</b>	<b>Week:7</b>	<b>10</b>	<b>10%</b>
<b>3</b>	<b>Monthly test 2</b>	<b>Week:15</b>	<b>10</b>	<b>10%</b>
<b>4</b>	<b>Class assignments</b>	<b>Week:1-14</b>	<b>10</b>	<b>10%</b>
<b>5</b>	<b>practical test</b>	<b>The week of the practical exam</b>	<b>20</b>	<b>20%</b>
<b>6</b>	<b>Final practical test</b>	<b>The week of the Practical exam</b>	<b>40</b>	<b>40%</b>
	<b>the total</b>		<b>100</b>	<b>100%</b>

<b>11. Learning and Teaching Resources</b>	
<b>Required textbooks (curricular books, if a</b>	<b>Engineering drawing for agricultural college students, Dr. Nateq Sabri Hassan, 1990</b>
<b>Main references (sources)</b>	<b>Engineering drawing, Abdul Rasul Al Khafaf 1990</b>
<b>Recommended books and references (scientific journals, reports...)</b>	<b>Textbook of Engineering Drawing k. Venkata Reddy, 2008</b>
<b>Electronic References, Websites</b>	<b><a href="https://www.youtube.com">https://www.youtube.com</a></b>

Instructor of theoretical part

Salih sabri ali

Chairman of the scientific committee

Prof. Dr. Moafak mahmood ahmed

Head of the department of Food science

Prof. Dr. Sumaya khalaf badawi