Course Description Form of Engineering Drawing

1. Course Name:	
Engineering Drawing	
2. Course Code:	
HOD-1109	
3. Semester / Year:	
first semester/ 2024-2025	
4. Description Preparation Date:	
15/1/2025	
5. Available Attendance Forms:	
Attending	
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: Dr. Mohammed Mezher Hasan Email: **mohammedmezher@uodiyala.edu.iq**	
8. Course Objectives	
Course Objectives: Graduating students who are able to:	1-getting to know the concept of engineering drawing 2-identification of the tools used in engineering drawing 3-the student should recognize the drawing scale 4-the student should be able to draw 5-the student should be able to imagine the drawing
9. Teaching and Learning Strategies	
Strategy	- Giving lectures. - Using the method of dialogue and discussion with students to convey Theoretical information to the student. - In-person lectures for 15 weeks, including two monthly exams, daily exams, and scientific reports

10. Course Structure					
Theoretical part					
Week	**Hours**	**Required learning outcomes**	**Unit or Subject Name**	**Learning Method**	**Evaluation Method**
1	**2**	General definitions and basic concepts in engineering drawing - its importance - getting to know engineering drawing tool**s**	Introduction engineering drawing	Lecture, discussion, reports,	Quick and monthly exams, class activity and reports
2	**2**	Types of lines - their use - methods of signing dimensions	Introduction engineering drawing	Lecture, discussion, reports,	Quick and monthly exams, class activity and reports
3	**2**	Drawing tangent lines, arcs and curves.	Drawing shapes	Lecture, discussion, reports,	Quick and monthly exams, class activity and reports
4	**2**	Drawing ellipses	Drawing ellipses	Lecture, discussion, reports,	Quick and monthly exams, class activity and reports
5	**2**	The three projection levels (vertical - horizontal - lateral) - Projection of simple geometric shapes such as triangles, squares and circles	The three projection levels	Lecture, discussion, reports,	Quick and monthly exams, class activity and reports
6	Semester 1st exam				
7	**2**	Dividing the board and choosing the appropriate scale	Dividing the board	Lecture, discussion, reports	Daily, monthly and final exams and daily reports
8	**2**	Finding the three projections - How to write dimensions	How to write dimensions	Lecture, discussion, reports	Daily, monthly and final exams and daily reports
9	**2**	Writing dimensions on the drawing - and common mistakes	How to write dimensions	Lecture, discussion, reports	Daily, monthly and final exams and daily reports
10	**2**	Drawing the three projections of the cylinder	Drawing the three projections	Lecture, discussion, reports	Daily, monthly and final exams and daily reports
11	**2**	How to draw solids - Angles of drawing solids	Drawing solids	Lecture, discussion, reports,	Daily, monthly and final exams and daily reports
12	Semester 2nd exam				
13	**2**	Drawing the cylinder in the solid shape	Drawing solids	Lecture, discussion, reports,	Daily, monthly and final exams and daily reports
14	**2**	Derive the third projection - Drawing the solid an idea about the importance of sectors	Derive the third projection	Lecture, discussion, reports,	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**	General definitions and basic concepts in engineering drawing - its importance - getting to know engineering drawing tools	Introduction engineering drawing	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
2	**3**	Types of lines - their use - methods of signing dimensions	Introduction engineering drawing	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
3	**3**	Drawing tangent lines, arcs and curves.	Drawing shapes	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
4	**3**	Drawing ellipses	Drawing ellipses	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
5	**3**	The three projection levels (vertical - horizontal - lateral) - Projection of simple geometric shapes such as triangles, squares and circles	The three projection levels	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
6	Semester 1st exam				
7	**3**	Dividing the board and choosing the appropriate scale	Dividing the board	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
8	**3**	Finding the three projections - How to write dimensions	How to write dimensions	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
9	**3**	Writing dimensions on the drawing - and common mistakes	How to write dimensions	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
10	**3**	Drawing the three projections of the cylinder	Drawing the three projections	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
11	**3**	How to draw solids - Angles of drawing solids	Drawing solids	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports
12	Semester 2nd exam				
13	**3**	Drawing the cylinder in the solid shape	Drawing solids	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports

14	**3**	Derive the third projection - Drawing the solid an idea about the importance of sectors	Derive the third projection	Observation Dialogue & discussion	Daily, monthly and final exams and daily reports

11. Course Evaluation
Assigning students to homework. Daily rapid exams - Monthly exams (two or more). - Evaluating students' classroom activity. - Evaluations on homework.

12. Learning and Teaching Sources	
Required Textbooks (Curricular Books, If Any)	Engineering Drawing for the 1st year By R.B. Gupta Natik Sabri, 1995 engineering drawing for students of the Faculty of Agriculture, University of Mosul
Main References (Sources)	Engineering Drawing for the 1st year By R.B. Gupta Natik Sabri, 1995 engineering drawing for students of the Faculty of Agriculture, University of Mosul ،
Recommended Books and References (Scientific Journals, Reports...)	
Electronic References, Websites	