

Date:	Examination No.:	Version:2022-2023	Start:1/02/2023
Module Name -Code	Engineering Drawing-0106		
Module Language:	English		
Responsible:	Dr.Gawhar Ibraheem Khidhir		
Lecture (s):	Dr.Gawhar Ibraheem Khidhir		
College:	College of Engineering – Salahaddin University-Erbil		
Duration:	15 week – 2 nd semester		
Course outcomes	To develop the student's ability to imagine the different parts and geometric shapes and how to relate the parts in different engineering projects and to draw easily by AutoCAD.		
Course Content:	<p>-Introduction to graphic language, Instrumental drawing, Types of lines, Line thickness, Size of drawing paper, Scales.</p> <p>-Geometric constructions, Drawing circles, Polygons, Ellipse, Constructing geometric shapes, Dimensions.</p> <p>-Projections: First angle projection.</p> <p>-isometric, Free hand isometric sketch.</p> <p>-Sections, Full section, Half sections, and Partial section.</p> <p>-Introduction to AutoCAD, Testing commands on AutoCAD, Drawing by AutoCAD, Projection in AutoCAD.</p>		
Literature:	<ol style="list-style-type: none"> 1. ENGINEERING DRAWING BY N.D BHATT. 2. AW Boundy, Engineering Drawing. 3. Bertoline, Fundamentals of Graphics communication. 4.Lakshminarayanan, Engineering Graphics. 		
Type of Teaching:	4 hrs practical training on hand drawing and learning AutoCAD software.		
Pre-requisites:	None		
Preparation Module	None		
Frequency:	Yearly in Spring Semester.		
Requirements for credit points:	<p>For the award of credit points, it is necessary to pass the module exam. It contains of : Continuous exam or effort on 50%, which consist of: 30% assignment+20% Midterm exam The final exam on 50% on AutoCAD program. Student's attendance is required in all classes. Students with more than 10% absence and/or less than 25% effort in continuous exams are NOT allowed to attend the final exam.</p>		
Credit point:	3		
Grade Distribution:	<p>The following grade system is used for the evaluation of the module exam: Module exam is based on the summation of two categories of evaluations: First: (50%) of the mark is based on the academic semester effort which includes :1-Assignments = (30%). 2- Mid-term exam = (20%) Second: (50%) of the mark is based on final examination which is done in computer lab on AutoCAD program.</p>		
Work load:	The workload is 81 hrs. It is the result of 60 hrs. Attendance and 21 hrs. Self-studies (Assignments, preparation for exam).		

Weekly lectures and their date of Engineering Drawing subject.	
Dates start from 12/2/2023	subjects
Week 1	Analyze of Course description, Introduction to Eng. Drawing, The graphic language and design, Instrumental drawing, Types of lines, Line thickness, Size of drawing paper, Sheets, Scales, Lettering.
Week 2	Geometric constructions, Drawing circles ,Pentagon, Hexagon, octagon, and homeworks.
Week 3	Drawing an Arc tangent to two Arcs(In to In ,Out to out ,In to out) , Ellipse ,Constructing geometric shapes and templates And homework.
Week 4	Dimensions
Week 5	Projections :First angle projection, homework
Week6	Pictorial Drawing, Isometric Drawing, Examples
Week7	Sections, Full section, Half sections, Examples
Week 8	Midterm Exam
Week 9	Missing Lines and Missing Views
Week10	Introduction to AutoCAD
Week 11	Testing commands on AutoCAD and drawing (Line,Arc,circle.....
Week 12	Status Bar ,Drawing Some examples by AutoCAD
Week 13	Modify tool bar , Drawing some examples by AutoCAD
Week 14	Layers ,Texts ,Dimentions, Extrude, Union, and some applications on projection.