

## Course Description

<b>Module*</b>	<b>Language*</b>
Engineering Drawing-0106	English
<b>Academic Year</b>	<b>Semester:</b>
2024-2025	Spring
<b>ECTS:</b>	<b>Prerequisite:</b>
3	-
<b>Course Outcome</b>	
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.	
<b>Course Content: *</b>	
<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>	
<b>References: *</b>	
<ul style="list-style-type: none"> <li>- 1. ENGINEERING DRAWING BY N.D BHATT.</li> <li>- 2. AW Boundy, Engineering Drawing.</li> <li>- 3. Bertoline, Fundamentals of Graphics communication.</li> <li>- 4.Lakshminarayanan, Engineering Graphics.</li> </ul>	
<b>Type of Teaching: *</b>	
4 hrs practical training on hand drawing and learning AutoCAD software.	
<b>Requirements For Credit Points: *</b>	
<b>Modules Course Requirements:</b>	
<ol style="list-style-type: none"> <li>1. Students Attendance in class is important.</li> <li>2. Discussion in class is required</li> <li>3. H.W and assignments for each lecture</li> <li>4. Midterm exam</li> <li>5. Quiz.</li> </ol>	

<b>Grade Distribution: *</b>
<b>The Grade Requirements</b>
The Grade is generated from the examination result(s) with the following weights (w):
Continuous Exam :50% , which consist of: 30% assignment (homework and class work) +20% Midterm exam
Final exam: 50% on AutoCAD program

## Weekly Plan

<b>Module*</b>	
Engineering Drawing-0106	
<b>Academic Year</b>	<b>Semester:</b>
2024-2025	Spring
<b>ECTS:</b>	<b>Prerequisite:</b>
3	-
<b>Detail</b>	
<b>Week</b>	<b>Detail</b>
Week 1	Analyze of Course description, Introduction to Eng. Drawing,
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 ,Dimention, Extrude, Union, and some applications on projection.

# Workload

			<b>Module*</b>
			Engineering Drawing-0106
<b>Academic Year</b>		<b>Semester:</b>	
2024-2025		Spring	
<b>ECTS:</b>		<b>Total number of credit hour</b>	
3		3*27 = <b>81</b>	
			<b>Prerequisite:</b>
			-
			<b>Detail</b>
<b>Type</b>	<b>Number</b>	<b>Time Factor</b>	<b>Total</b>
Attendance	4	5hr	4 *5 = 20
Class work	4	5hr	4*5 = 20
Mid Term Exam	4	5hr	4*5 = 20
Home work	3	7hr	3*7=21
			<b>81 hr.</b>