



Academic Quality Assurance Department

Course Syllabus Form

College	Engineering and Technology		
Department	Mechanical Engineering		
Program	All Engineering Disciplines		
Course Title	Engineering Drawing	Course Number:	12210136
Year	2024	Semester:	Summer
Prerequisite(s)	----		
Instructor	Dr. Hafiz Daraghmeh		
Instructor's e-mail	h.m.daraghmeh@ptuk.edu.ps	Office:	H302
Office Hours			
Class Time	Sun, Mon (8:00~10:00)	Class Room:	E321
Course description	This course aims to provide students with the principles and laws of drawing, drawing principles, operations, engineering isometric, projection and views, computer drawing AutoCAD.		
Course Intended Learning Outcomes (CILOs)	<ol style="list-style-type: none"> 1. To follow rules and principles of engineering drawing 2. To distinguish between the different views in engineering drawing 3. To draw and excel engineering drawings by hand 4. To apply engineering drawing principles and practices using the AutoCAD software 		
Textbook(s)	Department of Mechanical Engineering, 2018. Engineering Drawing and AutoCAD, Palestine Technical University – Kadoorie, Tulkarm, Palestine.		
Other required material (References):	<ol style="list-style-type: none"> 1. Johle, D.A., 2008. Engineering Drawing with an Introduction to AutoCAD. McGraw-Hill, New Delhi, India. 2. Jensen, C., Helsel, J.D., Short, D.R., 2002. Engineering Drawing and Design, 6th edition. McGraw-Hill. U.S. 3. French, T.E., Vierck, C.J., Foster, R.J., 1986. Engineering Drawing and Graphic Technology, 13th edition. McGraw-Hill. U.S. 		
Other Resources used (e.g. e-learning, field visits, periodicals, software, etc.)	<ul style="list-style-type: none"> - Lecture Notes - AutoCAD software (version 2010) 		



Course Teaching Methods	
Teaching Method	CILOs
Direct Instruction (Low Tech Teacher-Centered)	1
Game-based Learning (High Tech Student-Centered)	2
Expeditionary Learning (Low Tech Student-Centered)	3
Inquiry-based Learning (High Tech Student-Centered)	4

Assessment Type	Details/Explanation of assessment in relation to CILOs	Weight	Date(s)
Midterm Exam	CILOs 1 and 2	30%	Week 5
Second Exam			
Quizzes			
Laboratory/Practical			
Assignments	All CILOs	30%	
Project			
Final Exam	All CILOs	40%	Week 8
Total		100%	

Course Intended Learning Outcomes (CILOs)											
CILOs	Mapping to Program ILOs										
On successful completion of the course, students will be able to:	a	b	c	d	e	f	g	h	i	j	k
1. To follow rules and principles of engineering drawing											X
2. To distinguish between the different views in engineering drawing											X
3. To draw and excel engineering drawings by hand											X
4. To apply engineering drawing principles and practices using the AutoCAD software										X	

Course Weekly Breakdown					
Week	Date	Topics Covered	CILOs	Lab Activities	Assessment
1-2		Introduction <ul style="list-style-type: none"> ○ Using of drawing equipment ○ Types of lines ○ Dimensions 	1		



2-3	<p>Engineering Procedures</p> <ul style="list-style-type: none"> ○ Drawing of polynomials ○ Line in tangent with two circles ○ Arc in tangent with two circles ○ Arc in tangent with two lines ○ Arc in tangent with a line and a circle ○ Line in tangent of a circle at a point located at the circle's surface 	1+2		
4	<p>Projection</p> <ul style="list-style-type: none"> ○ Aim of the projection ○ Types of projections ○ Perpendicular projection 	2+3		
5-6	<p>Isometric Drawing</p> <ul style="list-style-type: none"> ○ Types of 3D drawing ○ Isometric drawing ○ Cylindrical Isometric drawing 	2+3		Midterm Exam
7-8	<p>Drawing Using AutoCAD</p> <ul style="list-style-type: none"> ○ Introduction ○ Engineering procedures ○ Isometric drawing 	4		
	Final Exam			Final Exam

Prepared by:			
Head of Department	<i>Dr. Jafar Masri</i>		
Date			