



UNIVERSITI TEKNOLOGI MARA

WTE222: COMPUTER AIDED DESIGN OF WOOD PRODUCT

Course Name (English)	COMPUTER AIDED DESIGN OF WOOD PRODUCT APPROVED
Course Code	WTE222
MQF Credit	2
Course Description	This course provides students with a through introduction into traditional technical drawing and Computer-Aided-Design (CAD) with a focus on wood design. By using popular CAD software in hands-on exercises, students gain the capability to create and distribute industry-standard architectural drawings.
Transferable Skills	Students be able to draw wood product using technical drawing and AutoCAD
Teaching Methodologies	Lectures, Practical Classes, Computer Aided Learning
CLO	<p>CLO1 Apply basic orthographic and isometric projection based on technical drawing technique and Computer Aided Design (CAD) software</p> <p>CLO2 Construct basic geometrical construction and two dimensional (2D) drawing in technical drawing</p> <p>CLO3 Distinguish the techniques and methods obtained from lecture in Computer Aided Design software</p>
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction 1.1) 1.1 Instrument in Traditional Drawing 1.2) 1.2 Drawing Sheet	
2. Basic Geometrical Construction 2.1) 2.1 Quadrilateral Construction 2.2) 2.2 Circle and Radius Construction 2.3) 2.3 Ellipse Construction 2.4) 2.4 Tangent to Circle 2.5) 2.5 Dimensioning	
3. Orthographic Projection 3.1) 3.1 First Angle Projection 3.2) 3.2 Third Angle Projection	
4. Isometric Drawing 4.1) 4.1 Isometric Format 4.2) 4.2 Isometric Angle	
5. Introduction to AutoCAD 5.1) 5.1 AutoCAD Commands 5.2) 5.2 Drawing Control and Manipulation 5.3) 5.3 Dimensioning and Multi Line Text	
6. AutoCAD 2D Drawing 6.1) 6.1 Simple Geometrical Drawing 6.2) 6.2 Modifying	

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Lab Exercise	AUTOCAD	20%	CLO3
	Lab Exercise	Technical Drawing	30%	CLO2
	Quiz	Quiz	10%	CLO1
	Test	Test	40%	CLO1

Reading List	Reference Book Resources
	<ul style="list-style-type: none"> • James Leach 2015, <i>AutoCAD 2016 Instructor</i>, 2016 Ed., SDC Publications [ISBN: 9781585039524] • Giesecke, Frederick E. Mitchell, Alva E. Spencer, Henry C. Dygdon, John Thomas Hill, Ivan L. Novak, James E. Loving, R. O. Lockhart, Shawna E. Johnson Cindy 2016, <i>Technical Drawing with Engineering Graphics</i>, 15 Ed., Peachpit Press [ISBN: 9780134306414] • Elise Moss 2014, <i>Autodesk AutoCAD 2015 Fundamentals</i>, SDC Publications [ISBN: 9781585038664] • Goetsch, D., Rickman, R., & Chalk, W. S. 2008, <i>Technical Drawing and Engineering Communication</i>, 6th ed. Ed., Delmar Cengage Learning Clifton Park, NY • Madsen, D. A., & Rawls, R. 2002, <i>AutoCAD LT 2002: Basics Through Advanced</i>, Prentice Hall Upper Saddle River, NJ

Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources