



UNIVERSITI TEKNOLOGI MARA

CID420: CERAMIC COMPUTER AIDED INDUSTRIAL DESIGN

Course Name (English)	CERAMIC COMPUTER AIDED INDUSTRIAL DESIGN APPROVED
Course Code	CID420
MQF Credit	2
Course Description	This course will include concept of technical drawing, construction drawing, isometric drawing, assembly drawing, production drawing and the basic knowledge of 2 D technical drawing software
Transferable Skills	Computerized Drawing Skill
Teaching Methodologies	Lectures, Lab Work, Demonstrations, Tutorial, Computer Aided Learning
CLO	<p>CLO1 Identify relevant knowledge and understanding, attributes and skills in effective ways in the contexts of creative and innovative practices</p> <p>CLO2 Demonstrate broad-based knowledge and skills in the area of 2 D technical drawing by using Computer Aided Design application</p> <p>CLO3 Apply the skills and principles of lifelong learning in their academic and career development within the specialized area as mention above</p>
Pre-Requisite Courses	No course recommendations
Topics	
<p>1. 1. Introduction to 2D technical drawing</p> <p>1.1) 1.1. Function and purpose of technical drawing</p> <p>1.2) 1.2. Representation of technical drawing</p> <p>1.3) 1.3. Drawing apparatus and their application</p> <p>1.4) 1.4. Standard drawing paper and scales</p>	
<p>2. 2. Introduction to CAD software</p> <p>2.1) 2.1. Familiar with various components of the Graphical user interface (GUI)</p> <p>2.2) 2.2. Basic commands</p> <p>2.3) 2.3. Coordinate system</p> <p>2.4) 2.4. Draw commands</p> <p>2.5) 2.5. Geometrical construction</p> <p>2.6) 2.6. Line Properties</p> <p>2.7) 2.7. Dimensioning</p> <p>2.8) 2.8. Text command</p> <p>2.9) 2.9. Layer and Plotting</p>	
<p>3. 3. Hand on Projects</p> <p>3.1) Hand on Project 1a (circle & line)</p> <p>3.2) Hand on Project 1b (polygon & line)</p> <p>3.3) Hand on Project 2a (wooden block)</p> <p>3.4) Hand on Project 2b (interior design)</p> <p>3.5) Hand on Project 3 (title block & logo)</p> <p>3.6) Test 1</p> <p>3.7) Hand on Project 4a (friction plate)</p> <p>3.8) Hand on Project 4b (geneva cam)</p> <p>3.9) Hand on Project 5 (Trophy and Mug)</p> <p>3.10) Hand on Project 6a (metal handle)</p> <p>3.11) Hand on Project 6b (engine block)</p> <p>3.12) Test 2</p>	

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	hand on project 1a (circle, polygon and line)	10%	CLO1 , CLO2
	Assignment	hand on project 2a (wooden Block, interior design)	10%	CLO1 , CLO2
	Assignment	hand on project 3 (title block and logo)	10%	CLO1 , CLO2
	Assignment	hand on project 4a (friction plate and geneva cam)	10%	CLO1 , CLO2 , CLO3
	Assignment	hand on project 5 (trophy and mug)	10%	CLO1 , CLO2 , CLO3
	Assignment	hand on project 6a (metal handle and engin block)	10%	CLO1 , CLO2 , CLO3

Reading List	Reference Book Resources	<ul style="list-style-type: none"> • Ellen Finkelstein 2011, <i>AutoCAD 2012 and AutoCAD LT 2012 Bible</i>, 1st Ed., Wiley [ISBN: 9781118022214] • David Byrnes 2011, <i>AutoCAD 2012 For Dummies</i>, 1st Ed., For Dummies [ISBN: 9781118024409] • Donnie Gladfelter 2011, <i>AutoCAD 2012 and AutoCAD LT 2012</i>, 1st Ed., Sybex [ISBN: 9781118016770] • George Omura 2011, <i>Mastering AutoCAD 2012 and AutoCAD LT 2012</i>, Sybex [ISBN: 9780470952887] • Scott Onstott 2011, <i>AutoCAD 2012 and AutoCAD LT 2012 Essentials</i>, 1st Ed., Sybex [ISBN: 9781118016794] • Terence M. Shumaker, David A. Madsen, David P. Madsen 2011, <i>AutoCAD and Its Applications Basics 2012</i>, Goodheart-Willcox [ISBN: 9781605255613]
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	