



## UNIVERSITI TEKNOLOGI MARA

### CDT281: CERAMIC COMPUTER AIDED DESIGN

<b>Course Name (English)</b>	CERAMIC COMPUTER AIDED DESIGN <b>APPROVED</b>
<b>Course Code</b>	CDT281
<b>MQF Credit</b>	2
<b>Course Description</b>	Ceramic Computer Aided Design, AutoCAD
<b>Transferable Skills</b>	Ceramic Computer Designer, Design Engineer
<b>Teaching Methodologies</b>	Lectures, Lab Work, Demonstrations, Tutorial
<b>CLO</b>	CLO1 Apply the foundation of technical skill using Computer Aided Design software through project assignment. CLO2 Respond into project assignment and quick test using CAD software CLO3 Utilize all the skill using Computer Aided Design software through final project.
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. 1 Introduction CAD software</b> 1.1) Basic software	
<b>2. Introduction to drawing tools</b> 2.1) Toolbar	
<b>3. Modify object and Properties</b> 3.1) Modify toolbar and layer properties	
<b>4. Fills and hatches, Text and Dimension</b> 4.1) Basic color and linetype	
<b>5. Layers, Block and the design center</b> 5.1) Create new layer, insert block and design library	
<b>6. From sketches to plot and Drawing 3D</b> 6.1) Workspace for 3d toolbar	
<b>7. 3D Solid</b> 7.1) Union, Subtract and Intersect	
<b>8. Exercise using Union, Subtract and others</b> 8.1) Continue to exercise	
<b>9. 3D exercise</b> 9.1) Final Project 1	
<b>10. Final project 2</b> 10.1) Final Technical Drawing using CAD software and Basic 3D rendering using CAD software.	

<b>Assessment Breakdown</b>	<b>%</b>
Continuous Assessment	100.00%

<b>Details of Continuous Assessment</b>	<b>Assessment Type</b>	<b>Assessment Description</b>	<b>% of Total Mark</b>	<b>CLO</b>
	Assignment	Respond to tool investigation skills, through lab assignment and simulations allow student to develop 3D design using the ceramic computer software	30%	CLO2
	Assignment	Final 3D project and technical drawing using software AutoCAD	50%	CLO3
	Test	Test (Topic 1- 6)	20%	CLO1

<b>Reading List</b>	<b>Reference Book Resources</b>	<ul style="list-style-type: none"> <li>• James Leach 2017, <i>AutoCAD 2017 Instructor Perfect Paperback</i>, First edition Ed.</li> <li>• Bill Fane 2016, <i>AutoCAD For Dummies</i>, First edition Ed.</li> <li>• CADFolks 2015, <i>AutoCAD 2016 For Beginners</i>, First edition Ed.</li> <li>• Ali Akhbar and Zico Pratama Putra 2017, <i>Autocad 2016 form Zero to Hero</i></li> <li>• Terence M. Shumaker and David A. Madsen 2016, <i>AutoCAD and Its Applications Basic 2016</i></li> <li>• Terence M. Shumaker and David A. Madsen 2013, <i>AutoCAD and Its Applications Advanced 2014</i></li> </ul>
<b>Article/Paper List</b>	This Course does not have any article/paper resources	
<b>Other References</b>	This Course does not have any other resources	