UNIVERSITI TEKNOLOGI MARA

CDT340: CERAMIC COMPUTER MODELLING

Course Name (English)	CERAMIC COMPUTER MODELLING `APPROVED`
Course Code	CDT340

MQF Credit	2

Course Description	This course will include the basic knowledge of surface pattern and texture using image editing and vector drawing application and cooperate with 3D modeling software.

Transferable Skills	Designer Art Teacher Lecturer Artist

Teaching Methodologies	Lectures, Lab Work, Demonstrations, Discussion, Presentation

CLO	CLO1	CO1: Apply the basic Ceramic Computer Modeling through test and project practice.
	CLO2	CO2: Demonstrate the skill on creating 3D modeling software and 3D drawing using appropriate application software through project assignment
	CLO3	CO3: Utilize all the skill using 3D software through final project

Pre-Requisite Courses	No course recommendations

Topics
1. Introduction Ceramic Computer Modeling 1.1) Ceramic pattern and texture design and nowadays significant 1.2) Ceramic surface pattern and texture
2. Introduction Ceramic Modelling 2.1) Computer design Integrated and its usage
3. Introduction to Vector 2D drawing and 3D software 3.1) Introduction to Vector 2D drawing and 3D software
4. Introduction to Vector 2D drawing and 3D software 4.1) 3D software
5. Introduction to graphical user interface 5.1) n/a
6. Introduction to graphical user interface 6.1) n/a
7. Ceramic 3D modeling forming 7.1) 3D skecth using multiple features
8. Ceramic 3D modeling forming 8.1) Surface and texture application using software tools
9. Ceramic 3D modeling forming 9.1) Imported Image
10. Ceramic 3D modeling forming 10.1) Isometric View
11. Setting and rendering the 3D modeling 11.1) 2D Technical Engineering Drawing
12. Setting and rendering the 3D modeling 12.1) Detail Design

13. Setting and rendering the 3D modeling
13.1) Computer troubleshoots

14. Setting and rendering the 3D modeling
14.1) Rendering Process

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assignment 2	20%	CLO2
	Final Project	This will require students to demonstrate and apply their acquired knowledge about 3D modeling software for final project.	30%	CLO3
	Final Project	This will require students to demonstrate and apply their skill on rendering and setting the product using appropriate application software .	30%	CLO3
	Test	The test will tap on the students' understanding on design and potential for decorative ceramic invention.	20%	CLO1

Reading List	Recommended Text	• **CADArifex SOLIDWORK 2017 2017,** *A Power Guide for Beginners and Intermediate Users*
		• **Paul Tran 2016,** *SOLIDWORK 2017 Basic Tools*
		• **Alejandro Reyes 2017,** *Beginner's Guide to SOLIDWORKS 2017 -Level 1*
		• **Alejandro Reyes 2016,** *ABeginner's Guide to SOLIDWORKS 2017 -Level 11*, **Focal Press**
		• **Prof Sham Tickoo 2016,** *SOLIDWORKS 2016 for Designers*, **Peach Pit Press**
		• **John Matsson 2016,** *An Introduction to SOLIDWORKS Flow Simulation 2016*
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	