



UNIVERSITI TEKNOLOGI MARA

CDT251: CERAMIC DESIGN

Course Name (English)	CERAMIC DESIGN APPROVED
Course Code	CDT251
MQF Credit	4
Course Description	This course concentrates on individual projects management, skill, creative thinking, model and mould making, slip casting, glazing technique, surface treatment and firing. Besides, this course will respond to industry design trend to gather information in design development, proposal and data collection. Design survey will be advantage for students to enhance their design proposal in various fields in ceramic industry.
Transferable Skills	Students should be able to: 1. Build the ceramic industrial skill through product through ceramic design research approaches. 2. Demonstrate the social skill and responsibilities in design trend, proposal and data collection throughout student's active participation. 3. Analyze the problem in ceramic process by employing appropriate and relevant scientific approaches.
Teaching Methodologies	Lectures, Demonstrations, Workshop
CLO	CLO1 Build the ceramic industrial skill through product through ceramic design research approaches. CLO2 Demonstrate the social skill and responsibilities in design trend, proposal and data collection throughout student's active participation CLO3 Analyze the problem in ceramic process by employing appropriate and relevant scientific approaches.
Pre-Requisite Courses	No course recommendations
Topics	
1. 1. Introduction 1.1) 1.1. Ideation 1.2) 1.2. New product development 1.3) 1.3. Sketching of Ideas/Working Drawing	
2. 2. Design Process 2.1) 2.1 Working Drawing/Sketches Of Ideas 2.2) 2.2 Design Shape and Form 2.3) 2.3 Form and Function / Ergonomics	
3. 3. Design Process (Continue) 3.1) 3.1 Sketching on developmental of Ideas 3.2) 3.2 Drawing from 2 D to 3 D	
4. 4. Design Process (Continue) 4.1) 4.1 Sketching on developmental ideas 4.2) 4.2 Critic /Brainstorming Session 4.3) 4.3 Final Ideation 4.4) 4.4 Constructing Technical Drawing	
5. 5. Model Making Process 5.1) 5.1 Prototype/Marquette made to Scale, Proportion 5.2) 5.2 Hand/Machine Made Modelling Using Plaster Of Paris 5.3) 5.3 Profile and surface quality	

6. 6. Model Making Process (Continue) 6.1) 6.1 Development and Modification 6.2) 6.2 Development of Accuracy 6.3) 6.3 Finishing and Detailing
7. 7. Mid Term Break 7.1) n/a
8. 8. Mould Making Process 8.1) 8.1 Mould Structures 8.2) 8.2 Number of Pieces in Mould. 8.3) 8.3 Working Mould.
9. 9. Mould Making Process (Continue) 9.1) 9.1 Developing Working Mould
10. 10. Mould Making Process (Continue) 10.1) 10.1 Finishing Mould.
11. 11. Casting Process 11.1) 11.1 Casting and finishing product.
12. 12. Firing Process 12.1) 12.1 Firing product.
13. 13. Decoration Process 13.1) 13.1 Decoration Product
14. 14. Glaze Process 14.1) 14.1 Preparing glaze materials 14.2) 14.2 Method of Glaze Application and Glaze test 14.3) 14.3 Glazing Final Product and Firing Process
15. 15. Project Presentation/Assessment (Preview) 15.1) n/a
16. 16. Study Week 16.1) n/a
17. 17. Final Assessment and Presentation 17.1) 17.1 Design Portfolio and Research 17.2) 17.2 Poster 17.3) 17.3 Drawing Presentation 17.4) 17.4 Product Presentation 17.5) 17.5 Report

Assessment Breakdown		%		
Continuous Assessment		100.00%		
Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Final Project	2D Visual Presentation	20%	CLO3
	Final Project	3D Work Process & Presentation	30%	CLO3
	Individual Project	Design Proposal	10%	CLO1
	Individual Project	Process & Technical skill	40%	CLO2
Reading List	Recommended Text	<ul style="list-style-type: none"> • Hoosan, Duncan and Quinn, Anthony 2012, <i>The Workshop Guide to Ceramics</i>, Thames and Hudson Ltd. London 		
	Reference Book Resources	<ul style="list-style-type: none"> • Duncan Hoosan and Anthony Quinn 2012, <i>The Workshop Guide to Ceramic.</i>, London: Thames and Hudson Ltd • Seth Nagelberg 2014, <i>Batch Manufacturing for Ceramic: Model and Molds, from Process to Product.</i>, Lulu.com Publishing. [ISBN: ISBN 978-1312] • Duncan Hoosan and Anthony Quinn 2012, <i>The Workshop Guide to Ceramic</i>, Thames and Hudson Ltd. London [ISBN: ISBN 97-0-50] • Donald A. Norman 2016, <i>The Design of Everyday Things.</i>, Cambridge, Mass, United States [ISBN: ISBN 97802625] 		
Article/Paper List	This Course does not have any article/paper resources			
Other References	This Course does not have any other resources			