



UNIVERSITI TEKNOLOGI MARA

CDT314: CREATIVE DESIGN FABRICATION

Course Name (English)	CREATIVE DESIGN FABRICATION APPROVED
Course Code	CDT314
MQF Credit	6
Course Description	This course concentrates on design methodology, projects management, skill, creative thinking, casting, glazing technique, surface treatment and firing. Design survey will be advantage for students to enhance their knowledge and creativity in various fields of ceramics manufacturing.
Transferable Skills	Industrial Ceramic Design Development Model making Mould making Casting Glazing Firing
Teaching Methodologies	Lectures, Studio, Discussion, Presentation, Workshop, Supervision
CLO	CLO1 Demonstrate the procedure of cast ware process through creative design methodology, model, mold making and casting CLO2 Solve problems in the work process with scientific skill through materials handling, product finishing, glazing defect and instability of firing at the basic level CLO3 Adapt entrepreneurial skills through creativity, innovation and the commercial value of the product
Pre-Requisite Courses	No course recommendations
Topics	
1. 1. Design By Project 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 and Developmental Ideas 2.1) 2.1 Design Shape and Form 2.2) 2.2 Form And Function/Ergonomics/Entrepreneurial 2.3) 2.3 Technical drawing development 2.4) 2.4 Critic /Brainstorming session	
3. 3. Model Making Process 3.1) 3.1 Prototype/Modeling, proportion and surface quality. 3.2) 3.2 Modeling techniques: hand sculpted, lathe machine or wheeler machine. 3.3) 3.3 Development, modification, finishing and solving (model)	
4. 4. Mold Making Process 4.1) 4.1 Different molding types: piece of mold. 4.2) 4.2 Modification, finishing and problem solving in mold making	
5. 5. Slip Casting & Bisque Firing 5.1) 5.1 Slip cast body preparation and slips casting 5.2) 5.2 Finishing green ware and dry ware 5.3) 5.3 Preparing Bisque firing /packing 5.4) 5.4 Problem solving in cast process	

6. 6. Glazing and Firing

- 6.1) 6.1 Preparing glaze materials and testing
- 6.2) 6.2 Glazing and Firing Process
- 6.3) 6.3 Solving glaze defect and firing method

7. 7. Final Presentation

- 7.1) 7.1 Verbal Presentation
- 7.2) 7.2 Novelty & Commercial Value
- 7.3) 7.3 Product Presentation

Assessment Breakdown		%	
Continuous Assessment		100.00%	
Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark
	Final Project	Final Project	60%
	Individual Project	Idea Development	20%
	Individual Project	Practical Skill	20%
Reading List	Recommended Text	<ul style="list-style-type: none"> • Louisa Taylor 2011, <i>Ceramics</i>, Words & Visuals Press Pte Ltd. [ISBN: 9789810892500] • Greg Daly 2011, <i>Lustre</i>, University of Pennsylvania Press [ISBN: 9780812221930] • Linda Bloomfield 2011, <i>Colour in Glazes</i>, A&C Black Visual Arts [ISBN: 1408131218] • Seth Nagelberg 2014, <i>Batch Manufacturing for Ceramics</i>, Lulu.com [ISBN: 9781312378599] • Duncan Hooson, Anthony Quinn 2012, <i>The Workshop Guide to Ceramics</i>, Thames & Hudson [ISBN: 0500516219] 	
	Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources		