



UNIVERSITI TEKNOLOGI MARA

CID450: INDUSTRIAL CERAMIC PRODUCTION

Course Name (English)	INDUSTRIAL CERAMIC PRODUCTION APPROVED
Course Code	CID450
MQF Credit	3
Course Description	This course concentrates on the basic stages of industrial ceramic production process. It will consist the whole phase of workshop process from modelling till the stage of firing. Students will be guided to understand and practice the standard procedure of industrial ceramic production process from designing to fabricating stage. It will include preparation of raw material use for slip casting and mixing procedure. The project will expose student to the proper technique of casting, cut and assemble parts, troubleshoot and finishing. Through this experience, it will guide student to decide the best type of mould depending on technique of casting and the technical part of design.
Transferable Skills	Modeling and mold making
Teaching Methodologies	Lectures, Studio, Workshop
CLO	<p>CLO1 Propose ceramic ware design that will be produced through hollow, solid or double casting techniques.</p> <p>CLO2 Explain the proper procedure for industrial ceramic model and mould making through selected design.</p> <p>CLO3 Organise proper procedure of industrial slip casting process for production.</p>
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction to Model and Mould Making for Industrial Ceramics	
1.1) Terms and Definitions 1.2) Workshop House Keeping	
2. Block, Case and Production Moulds	
2.1) The Flow Chart 2.2) Making Drop-out Model 2.3) Making Block Mould 2.4) Making Case Mould 2.5) Making Production Moulds	
3. Shape Design	
3.1) Hollow ware 3.2) Flat Ware 3.3) Trifles	
4. Model and Mould Making	
4.1) Shaping models by turning lathe and mechanical modelling bench 4.2) Making mould using Clay-bed and Plaster build-up methods 4.3) Spares and Natches 4.4) Slip Casting 4.5) Assembling of Trifles 4.6) Finishing, Drying and Bisque Firing	
5. End Products of Coursework	
5.1) 2-D Design Portfolio Presentation 5.2) 3-D Practical Work Presentation 5.3) Design Report	

Assessment Breakdown		%		
Continuous Assessment		100.00%		
Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Final Project	Final work; fired piece, illustration	40%	CLO3
	Individual Project	Progress assessment; research, idea, design development	30%	CLO1
	Individual Project	Modeling and mold making	30%	CLO2
Reading List	Recommended Text	<ul style="list-style-type: none"> • Neal French 1998, <i>The Potter's Directory of Shape and Form</i>, Krause Publications [ISBN: 0873415604] • Anthony Quinn 2007, <i>Ceramic Design Course</i>, Barrons Educational Series Incorporated [ISBN: 0764137336] • Duncan Hooson, Anthony Quinn, <i>The Workshop Guide to Ceramics</i> [ISBN: 0500516219] 		
Article/Paper List	This Course does not have any article/paper resources			
Other References	This Course does not have any other resources			