



UNIVERSITI TEKNOLOGI MARA

CDT201: BASIC MODEL AND MOULD MAKING

Course Name (English)	BASIC MODEL AND MOULD MAKING APPROVED
Course Code	CDT201
MQF Credit	3
Course Description	This course will introduce the fundamental knowledge of design through 2D artwork presentation and design development. Student required to develop practice skill at basic modelling and mould making process. Student also need to identify problem and find basic solution through the product making and process development.
Transferable Skills	At the end of the course, students should be able to: 1. Apply the fundamental knowledge of design through idea presentation, design and sketches in project assignment. PLO1 (C2) 2. Build the skill of basic model and mould making through ceramic design research approaches. PLO2 (P3) 3. Analyze issues and solutions in model and mould making process through discussion and presentation at the basic level. PLO6 (C3)
Teaching Methodologies	Lectures, Demonstrations
CLO	CLO1 Apply the fundamental knowledge of design through idea presentation, design and sketches in project assignment CLO2 Build the skill of basic model and mould making through ceramic design research approaches. CLO3 Analyze issues and solutions in model and mould making process through discussion and presentation at the basic level.
Pre-Requisite Courses	No course recommendations
Topics	
1. 1. Course Introduction 1.1) 1.1 Project brief / Scheme of work	
2. 2. Development of Idea 2.1) 2.1 Data Collection (Types of product and Subject matter base on theme)	
3. 3. Design Process 3.1) 3.1 Working Drawing/Sketches of Ideas 3.2) 3.2 Sketching on Development of Idea 3.3) 3.3 Drawing From 2D to 3D 3.4) 3.4 Final Ideation 3.5) 3.5 Critic /Brainstorming Session	
4. 4. Model Making 4.1) 4.1 Introduction of basic model and mould making 4.2) 4.2 Making 'set bats' to make plaster block. 4.3) 4.3 Method of mixing and pouring Plaster of Paris.	
5. 5. Model Making Project I (Body Form) 5.1) 5.1 Preparation to model making. 5.2) 5.2 Model making Project I (Body Form - base on final ideation)	
6. 6. Model Making Project I (Body Form - Continue) 6.1) 6.1 Model Making (Body Form) 6.2) 6.2 Finishing and detailing (size, accuracy and surface)	
7. 7. Mid Term Break 7.1) n/a	

8. 8. Model Making Project II (Cover Form) 8.1) 8.1 Preparation to model making. 8.2) 8.2 Model making Project II (Cover Form - base on final ideation)
9. 9. Model Making Project II (Cover Form - Continue) 9.1) 9.1 Model Making (Cover Form) 9.2) 9.2 Finishing and detailing (size, accuracy and surface)
10. 10. Mould Making 10.1) 10.1 Mould Structures 10.2) 10.2 Working Mould.
11. 11. Mould Making (Continue) 11.1) 11.1 Developing Working Mould.
12. 12. Mould Making (Continue) 12.1) 12.1 Finishing and Detailing (Mould)
13. 13. Slip Casting 13.1) 13.1 Method of Slip Casting Process.
14. 14. Slip Casting (Continue) 14.1) 14.1 Finishing product
15. 15. Bisque Firing 15.1) 15.1 Method of Bisque Firing (Setting and Temperature)
16. 16. Study Week 16.1) n/a
17. 17. Final Assessment and Presentation 17.1) n/a

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 Portfolio	10%	CLO1
	Individual Project	Practical and Technical Skill	40%	CLO2

Reading List	Recommended Text	Quinn, Anthony 2007, <i>Ceramics Design Course</i> , Thames and Hudson Ltd. United Kingdom
	Reference Book Resources	<ul style="list-style-type: none"> • 1. Duncan Hoosan and Anthony Quinn 2012, <i>The Workshop Guide to Ceramic</i>, Thames and Hudson Ltd London • 2. Seth Nagelberg 2014, <i>Batch Manufacturing for Ceramic: Model and Molds, from Process to Product</i>, Lulu.com Publishing • 3. Duncan Hoosan and Anthony Quinn 2012, <i>The Workshop Guide to Ceramic</i>, Thames and Hudson Ltd London • 4. Donald A. Norman 2016, <i>The Design of Everyday Things</i>, Cambridge, Mass United State

Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources