



UNIVERSITI TEKNOLOGI MARA
CDT161: FUNDAMENTAL OF INDUSTRIAL CERAMIC FORMING

Course Name (English)	FUNDAMENTAL OF INDUSTRIAL CERAMIC FORMING APPROVED
Course Code	CDT161
MQF Credit	3
Course Description	This course is introduction to model making. During this course, it will concentrate on understanding of technical drawing construction, modeling material, forming skill and final outcomes modeling. At the end of the semester, student will be able to recognize the Orthographic projection in technical drawing, handling the material for modeling and final presentation.
Transferable Skills	Knowledge on basic model making in industrial ceramics process and material handling that suitable.
Teaching Methodologies	Lectures, Demonstrations, Discussion, Workshop
CLO	CLO1 Relate the fundamental industrial model forming through detailed drawing. CLO2 Respond towards hand modelling skill using ceramic industrial modelling material. CLO3 Analyze design problem during project developing through model making process.
Pre-Requisite Courses	No course recommendations
Topics	
1. 1. Introduction to Industrial Ceramic, tools and material. 1.1) 1.1 Definition of Industrial ceramic 1.2) 1.2 Tools and modelling material 1.3) 1.3 Design process 1.4) 1.4 Modelling process	
2. 2. Basic modeling process. 2.1) 2.1 Recognize the Orthographic projection of technical drawing 2.2) 2.2 Mock up making base on Orthographic projection.	
3. 3. Produce basic modelling form base on Orthographic projection. 3.1) 3.1 Recognize suitable material for modeling 3.2) 3.2 Hand modelling forming technique	
4. 4. Reproduce model form. 4.1) 4.1 Basic product design sketches 4.2) 4.2 Orthographic projection technical drawing 4.3) 4.3 Modelling base from technical drawing	
5. 5. Presentation & Assessment. 5.1) 5.1 Technical drawing and idea sketches 5.2) 5.2 Model and mock up. 5.3) 5.3 Report	

Assessment Breakdown		%	
Continuous Assessment		100.00%	

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Final Project	The project will tap on the students' understanding on preparing idea, technical drawing and model material handling.	40%	CLO3
	Practical	The project will tap on the students' understanding on technical drawing and model material handling.	30%	CLO2
	Practical	The project will tap on the students' understanding on technical drawing observation and construct model from the drawing.	30%	CLO1

Reading List	Recommended Text	• Anthony Quinn 2007, <i>The Ceramics Design Course</i> , Thames and Hudson Ltd United Kingdom [ISBN: 978-0-5002868]
	Reference Book Resources	<ul style="list-style-type: none"> • Bert Bielefeld, Isabella Skiba 2013, <i>Basics Technical Drawing</i>, Birkhauser [ISBN: 9783034613262] • Seth Nagelberg 2014, <i>Batch Manufacturing for Ceramics</i>, Lulu.com [ISBN: 9781312378599] • Kate Singleton 2016, <i>Ceramics</i>, Chronicle Books [ISBN: 9781452148090] • Duncan Hooson, Anthony Quinn 2017, <i>Ceramics</i>, Firefly Books [ISBN: 9781770859302] • Amber Creswell Bell 2017, <i>Clay: Contemporary Ceramic Artisan</i>, Thames and Hudson Ltd [ISBN: 9780500500729] • Pat Moore, Pirco Wolfram 2013, <i>Eva Zeisel: Life, Design, and Beauty Hardcover</i>, Chronicle Books [ISBN: 9781452108520]
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	