



**UNIVERSITI TEKNOLOGI MARA**

**CID500: ADVANCED INDUSTRIAL CERAMIC WARE**

<b>Course Name (English)</b>	ADVANCED INDUSTRIAL CERAMIC WARE <b>APPROVED</b>
<b>Course Code</b>	CID500
<b>MQF Credit</b>	3
<b>Course Description</b>	This is a course where students learn and practice to design then produce functional ceramic ware with aesthetic value, based from information gathered through research. Through design development, student is required to resolve technical problems and propose resolution that fit the meaning of industrial manufacturing procedure. It is also a platform for student to explore the maximum possibility in manufacturing technique using various materials. The focus of this course will be also on fostering and generating design ideas for pattern work in 2D and 3D (forms) in a very creative way and with critical thinking. Then student is acquired to compile all the data collections and idea development in a professional manner alias to develop competencies in the presentation of design proposals. Analyzed design principle, criteria and technique will help student to enhance their understanding in design process and developing skill through practices.
<b>Transferable Skills</b>	Design and thinking skills
<b>Teaching Methodologies</b>	Lectures, Demonstrations, Tutorial, Presentation, Workshop
<b>CLO</b>	CLO1 Calibrate ideas and problems in designing functional ceramic ware. CLO2 Explain ideas and solution in producing functional ceramic ware base on research findings and through professional design practice. CLO3 Propose ideas of pattern work (2D) and form (3D) that composed industrial needs and design criteria as model and prototype
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. . Visual Research</b> 1.1) 1.1 Data Collection 1.2) 1.2 Design trend and style 1.3) 1.3 Concept and theme 1.4) 1.4 Technique 1.5) 1.5 Material	
<b>2. 2. Design Analysis</b> 2.1) 2.1 Design Criteria 2.2) 2.2 Ergonomic and function 2.3) 2.3 Experiment and sample 2.4) 2.4 Design potential	
<b>3. 3. Idea Development</b> 3.1) 3.1 Working Drawing 3.2) 3.2 Pattern work 3.3) 3.3 Design Structural Concept 3.4) 3.4 Design Plan & Gantt Chart	
<b>4. 4. Design Synthesis</b> 4.1) 4.1 Suggestion & Conclusion 4.2) 4.2 Idea Evaluation	
<b>5. 5. Prototyping Execution</b> 5.1) 5.1 3D sketches (maquette making) 5.2) 5.2 Product Specification 5.3) 5.3 Model making	

**6. 6. Project Structure Presentation**

6.1) 6.1 Project Proposal Presentation

6.2) 6.2 Design statement

6.3) 6.3 Product Quality Assurance

6.4) 6.4 Critique

Assessment Breakdown		%		
Continuous Assessment		100.00%		
Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Final Project	Final assessment	50%	CLO3
	Individual Project	Progress Assessment 1	20%	CLO1
	Individual Project	Progress Assessment 2	30%	CLO2
Reading List	Recommended Text	<ul style="list-style-type: none"> <li>• Anthony Quinn 2007, <i>Ceramic Design Course</i>, Barrons Educational Series Incorporated [ISBN: 0764137336]</li> <li>• Donald E. Frith 1992, <i>Mold Making for Ceramics</i>, Krause Publications Incorporated [ISBN: 0873416929]</li> <li>• Neal French, <i>Industrial Ceramics, Tableware</i> [ISBN: 0192899120]</li> </ul>		
Article/Paper List	This Course does not have any article/paper resources			
Other References	This Course does not have any other resources			