



## UNIVERSITI TEKNOLOGI MARA

### CMT659: COLLOID AND CATALYST LABORATORY

<b>Course Name (English)</b>	COLLOID AND CATALYST LABORATORY <b>APPROVED</b>
<b>Course Code</b>	CMT659
<b>MQF Credit</b>	1
<b>Course Description</b>	This course is aimed to provide the fundamental practical skills on colloid, surface and catalyst science. It supplements the theoretical knowledge and enhances understanding the corrosion phenomena and materials performance. This course is prepared for student to capable in conducting, analysing, material characterization and interpreting the surface chemistry of colloid and catalyst phenomena and preparation of material . Students will acquire the learn how to carry out experiments safely and carefully in the laboratory, as well to obtain data accurately and to manipulate the data correctly. It complements the theoretical knowledge and enhances more holistic understanding towards the corrosion, material science and technology.
<b>Transferable Skills</b>	Lab skills
<b>Teaching Methodologies</b>	Demonstrations, Presentation, Journal/Article Critique
<b>CLO</b>	CLO1 Able to communicate the result of the experiment CLO2 Able to analyse the results of the experiment in written
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. Adsorption at the Surface of Water (Chapter: Surface Tension)</b> 1.1) N/A	
<b>2. Characterization of Activated Carbon (Chapter Adsorption)</b> 2.1) N/A	
<b>3. Effect of Catalyst on Rate of Reaction</b> 3.1) N/A	
<b>4. Photocatalysis: Degradation of Dyes</b> 4.1) N/A	

<b>Assessment Breakdown</b>	<b>%</b>
Continuous Assessment	100.00%

<b>Details of Continuous Assessment</b>	<b>Assessment Type</b>	<b>Assessment Description</b>	<b>% of Total Mark</b>	<b>CLO</b>
	Assignment	A selection article will be presented in poster form	40%	CLO1
	Written Report	Report writing from data given.	60%	CLO2

<b>Reading List</b>	This Course does not have any book resources
<b>Article/Paper List</b>	This Course does not have any article/paper resources
<b>Other References</b>	This Course does not have any other resources