



UNIVERSITI TEKNOLOGI MARA

CBE461: BIOCHEMISTRY LAB

Course Name (English)	BIOCHEMISTRY LAB APPROVED
Course Code	CBE461
MQF Credit	1
Course Description	This course exposes the students to the practical tools and fundamental techniques needed in biochemistry.
Transferable Skills	Biochemistry laboratory skills
Teaching Methodologies	Lab Work
CLO	CLO1 Perform experiments, which are related to the fundamental study covered in the biochemistry course. CLO2 Develop well-structured experimental methodologies for open ended investigations CLO3 Evaluate the experimental results with the theories and interpret the data.
Pre-Requisite Courses	No course recommendations
Topics	
1. Experiment 1: Concepts of pH and buffers 1.1) n/a	
2. Experiment 2: Estimation of Carbohydrates-Total and Reducing 2.1) n/a	
3. Experiment 3: Paper chromatographic of amino acids 3.1) n/a	
4. Experiment 4: Purification of lipids from egg yolk 4.1) n/a	
5. Experiment 5: Estimation of proteins 5.1) n/a	
6. Experiment 6: Enzyme assays based on uv-vis spectroscopy 6.1) n/a	

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Rubrics assessment	20%	CLO1 , CLO2 , CLO3
	Test	n/a	20%	CLO1 , CLO2 , CLO3
	Written Report	6 Lab reports	60%	CLO1 , CLO2 , CLO3

Reading List	Reference Book Resources	<ul style="list-style-type: none"> • D.Holem and H.Peck. 1983, <i>Analytical Biochemistry</i>, Longman • <i>Selected reading from Methods in Enzymology,A</i> • R.Scopes 1982, <i>Protein Purification:Priciples and Practices</i>, Springer Verlag • T.G Cooper 1997, <i>The Tools of Biochemistry</i>, Wiley Intersciences
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	