

UNIVERSITI TEKNOLOGI MARA

MLT544: CLINICAL CHEMISTRY I

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Course Name (English)	CLINICAL CHEMISTRY I APPROVED				
Course Code	MLT544				
MQF Credit	3				
Course Description	This course introduces the principles of clinical chemistry with emphasis in the laboratory testing methods pertaining to each of the topic discussed. Diagnostic and laboratory test procedures and interpretations will be detailed for the routinely ordered tests and selected special tests. The clinical significance of these tests is addressed for the commonly ordered tests to serve as a guide and reference for accurate reporting of results.				
Transferable Skills	Practical skills, Communication skills, Social skills, and Leadership skills.				
Teaching Methodologies	Lectures, Case Study, Practical Classes				
CLO	CLO1 Explain analytes and amino acids regulation in pathological and non-pathological samples. CLO2 Display routine analytes and amino acids tests in pathological and non-pathological samples. CLO3 Evaluate the clinical significances of analytes and amino acids.				
Pre-Requisite Courses	No course recommendations				
Topics	Topics				
-	1. Electrolyte and Water Balance				
2. Osmolality 2.1) N/A					
3. Blood Gases and 3.1) N/A	3. Blood Gases and Acid Base Balance				
4. Amino Acids and Proteins 4.1) N/A					
5. Aminoacidurias 5.1) N/A					
6. Enzymes 6.1) N/A					
7. Glucose Abnormalities 7.1) N/A					
8. Lipids, Apolipopr 8.1) N/A	oteins and Lipoproteins				

Faculty Name : FACULTY OF HEALTH SCIENCES

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Start Year : 2021

Review Year : 2019

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of				
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Creative Presentation	20%	CLO3
	Practical	Practical Exam	20%	CLO2
	Test	Test 1	30%	CLO1
	Test	Test 2	30%	CLO1

Reading List	Recommended Text	Burtis, C.A., Ashwood, E.R., & Bruns, D.E. 2008, <i>Tietz fundamentals of clinical chemistry</i> , Saunders WB Company St. Louis, Missouri		
	Reference Book Resources	Burtis, C.A., Ashwood, E.R., & Bruns, D.E. 2012, <i>Tietz</i> textbook of clinical chemistry and molecular diagnostics, 5 Ed., Saunders St Louis Missouri		
		Dasgupta, A., & Wahed, A. 2014, Clinical chemistry, immunology and laboratory quality control: a comprehensive review for board preparation, certification and clinical practice Elsevier USA		
		Chatterjea, M.N., & Chawla, R. 2010, Clinical chemistry: (organ function test, laboratory investigations and inborn metabolic diseases)., Jaypee Brothers Medical Publishers Delhi		
		Marshall, W.J., Bangert, S.K., & Lapsley, M. 2012, <i>Clinical chemistry</i> , Mosby, Elsevier. Edinburgh		
Article/Paper List	This Course does not have any article/paper resources			
Other References	This Course does not have any other resources			

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