

UNIVERSITI TEKNOLOGI MARA

CBE561: GENETICS LAB

Course Name (English)	GENETICS LAB APPROVED			
Course Code	CBE561			
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MQF Credit	1			
Course Description	This course plans to illustrate principles that are presented in Genetics and Molecular Biology lecture and to provide an opportunity for the presentation of scientific results and theories. Experiments utilising restriction endonuclease to cleave DNA, isolation of genetic materials, bacteria transformation and to visualise and analyse a particular subset of macromolecules will be carried out.			
Transferable Skills	Genetic laboratory skills			
Teaching Methodologies	Lab Work			
CLO	CLO1 Perform experiments that related to genetics and molecular biology. CLO2 Explain the basic principles of genetics and molecular biology from the experiments CLO3 Evaluate and present experimental results scientifically pertaining to molecular genetics theories			
Pre-Requisite Courses	No course recommendations			
Topics				
1. Experiment 1: Ge 1.1) n/a	1. Experiment 1: Genes in a bottle			
2. Experiment 2: Bacterial Transformation 2.1) n/a				
3. Experiment 3: Restriction endonuclease digestion and gel electrophores 3.1) n/a				
4. Experiment 4: The isolation of genetic material by using PCR 4.1) n/a				
5. Experiment 5: ELISA 5.1) n/a				
6. Experiment 6: Blotting 6.1) n/a				

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Start Year : 2013

Review Year : 2017

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

3	Reference Book Resources	Mertens,T,.Hammaersmith,R.L. 1991, <i>Genetics:Laboratory</i> <i>Investigation,</i> , 9 Ed., McMillan Publishing Company,New York		
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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