

UNIVERSITI TEKNOLOGI MARA

BMS673: TOPICS IN MOLECULAR BIOLOGY

Course Name (English)	TOPICS IN MOLECULAR BIOLOGY APPROVED			
Course Code	BMS673			
MQF Credit	2			
Course Description	This course is designed to allow students to use the knowledge and skills gained over the past semester to evaluate and analyse a scientific report, service or solution developed using molecular biology tools. The course is partly conducted on a distance learning mode, where students are required to do a series of intensive literature survey and critical reading, discuss with their assigned lecturers, submit reading reports and give an oral presentation.			
Transferable Skills	Critical reading, Literature analysis, Report writing, Oral presentaion			
Teaching Methodologies	Blended Learning, Discussion, Presentation, Self-directed Learning, Journal/Article Critique, Supervision			
CLO	CLO1 Extract and explain the core points from a scientific review article on a topic/subject in molecular biology CLO2 Critically analyze selected scientific articles on the same subject matter, including pointing out limitations, suggesting possible improvements and appraising the impact of the scientific work and findings contained within the articles CLO3 Collate and critically analyze information on a given specific topic, orally present the analysis and response appropriately to questions raised			
Pre-Requisite Courses	No course recommendations			
Topics				
1. Selection of topic 1.1) 1.1 Agricultural k 1.2) 1.2 Environment 1.3) 1.3 Industrial bio 1.4) 1.4 Medical biotect 1.5) 1.5 Food biotect	piotechnology cal biotechnology stechnology echnology anology			

- 1.6) 1.6 Other related biotechnology

- 2. Extraction of relevant data
 2.1) 2.1 Problem statement and hypothesis
 2.2) 2.2 Objectives
 2.3) 2.3 Methodology

- 3. Summary of article
 3.1) 3.1 Problem statement and hypothesis
 3.2) 3.2 Objectives
 3.3) 3.3 Methodology appropriateness
 3.4) 3.4 Data analysis soundness
 3.5) 3.5 Major findings

4. Critical analysis

- 4.1) 4.1 Shortcomings/ Limitations 4.2) 4.2 Suggestions for improvement 4.3) 4.3 Impact of major findings

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5. Critique, presentation and response to queries 5.1) 5.1 Select article 5.2) 5.2 Critical analysis 5.3) 5.3 Discussion 5.4) 5.4 Oral presentation 5.5) 5.5 Response to questions

6. Critical analysis of selected literature 6.1) 6.1 Critical analysis of article 6.2) 6.2 Report writing

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Assessment Breakdown	%
Continuous Assessment	70.00%
Final Assessment	30.00%

Details of Continuous Assessment					
	Assessment Type	Assessment Description	% of Total Mark	CLO	
	Journal/Article Critique	Article #1. Data extraction and summary of results.	5%	CLO1	
	Journal/Article Critique	Article #2 Data extraction, summary of data analysis and major findings.	10%	CLO1, CLO2	
	Journal/Article Critique	Article #3. Data extraction, summary of data analysis and major findings. Discuss significance of findings.	15%	CLO1, CLO2	
	Presentation	Article #4. Sourced by student with the help of tutors. Critical analysis, oral presentation, response to questions.	40%	CLO1, CLO2, CLO3	

Reading List	TEAL	Brink-Budgen RVD 2010, Critical Thinking for Students: Learn the Skills of Analysing, Evaluating and Producing Arguments, 4 Ed., Oxford How To Books Ltd. Cotrell S 2011, Critical Thinking Skills: Developing Effective Analysis and Argument, 1 Ed., Palgrave Macmillan Press	
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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