

UNIVERSITI TEKNOLOGI MARA

BMS672: TOPICS IN BIOTECHNOLOGY

Course Name (English)	TOPICS IN BIOTECHNOLOGY APPROVED				
Course Code	BMS672				
Oddisc Oddc	DWOOTZ				
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 biotechnology 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, Directed Self-learning , Journal/Article Critique, Supervision				
CLO	CLO1 Extract and explain the core points from a scientific review article on a topic/subject in biotechnology 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 bit 1.2) 1.2 Environment 1.3) 1.3 Industrial biot 1.4) 1.4 Medical biotech 1.5) 1.5 Food biotech 1.6) 1.6 Other related 2. Extraction of rele 2.1) 2.1 Problem stat 2.2) 2.2 Objectives 2.3) 2.3 Methodology	biotechnology tal biotechnology btechnology echnology anology d biotechnology evant data tement and hypothesis				

- 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	100.00%

Details of Continuous Assessment						
	Assessment Type	Assessment Description	% of Total Mark	CLO		
	Assignment	Article Test #4. Students are given 48 hours to read given a challenging scientific article, after which they will submit answer to a set of questions.	15%	CLO2		
	Assignment	Article #1. Data extraction and summary of results.	20%	CLO1		
	Assignment	Article #2. Data extraction, summary of data analysis and major findings.	25%	CLO2		
	Presentation	Article #3. Sourced by student with the help of tutors. Critical analysis and video presentation.	40%	CLO3		

Reading List	Recommended Roy van den Brink-Budgen 2010, <i>Critical Thinking for Students</i> , 4th edition Ed., Ten, How to Books Limited Londor UK [ISBN: 1845283864]	Stude	n,	
	John Butterworth, Geoff Thwaites 2005, <i>Thinking Skills</i> , 1 Ed 44, Cambridge University Press United Kingdom [ISBN: 978-0521-5214]	44, C	l.,	
	Anne Thomson 2008, <i>Critical Reasoning: A Practical Introduction</i> , 3 Ed., 7, Routledge USA and Canada [ISBN: 978-041544587]	Intro		
	Tracy Bowell, Gary Kemp 2009, <i>Critical Thinking: A Concise Guide</i> , 3 Ed., 7, Routledge USA and Canada [ISBN: 978-041547183]	Guid		
	Stella Cortell 2011, <i>Critical Thinking Skills: Developing Effective Analysis and Argument (Palgrave Study Skills)</i> , 2 Ed., 11, Palgrave Macmillan New York [ISBN: 978-023028529]	Effec		
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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