



## UNIVERSITI TEKNOLOGI MARA

### SPB641: BASIC BIOTECHNOLOGY

<b>Course Name (English)</b>	BASIC BIOTECHNOLOGY <b>APPROVED</b>
<b>Course Code</b>	SPB641
<b>MQF Credit</b>	3
<b>Course Description</b>	no description provided
<b>Transferable Skills</b>	pedagogy inovation teamworks
<b>Teaching Methodologies</b>	Lectures, Blended Learning, Web Based Learning, Discussion
<b>CLO</b>	CLO1 1. Explain the principles of genetics, and genetics. CLO2 Compare the application of biotechnology in various areas including agriculture, environment, health, food and industries. CLO3 Perform experiments on the application of plant biotechnology. CLO4 Express the importance of biotechnology in agriculture, health, environment, food and industries
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. Introduction of Biotechnology</b> 1.1) n/a	
<b>2. Biotechnology Application</b> 2.1) n/a	
<b>3. Cell Diversity</b> 3.1) n/a	
<b>4. Culture System and Aseptic Technique</b> 4.1) n/a	
<b>5. Cell culture</b> 5.1) Mammalian 5.2) Plant	
<b>6. Medical Biotechnology</b> 6.1) Gene Therapy	
<b>7. Molecular Biology</b> 7.1) Genetic engineering	
<b>8. Plant Biotechnology</b> 8.1) GMO	

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	n/a	10%	CLO2 , CLO4
	Discussion	i class	10%	CLO1 , CLO2 , CLO3 , CLO4
	Group Project	n/a	30%	CLO1 , CLO3
	Online Quiz	n/a	10%	CLO1 , CLO2

Reading List	<table border="1"> <thead> <tr> <th>Recommended Text</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> <li>• Thieman, W.J. 2009, <i>Introduction to Biology</i>, 2 Ed.</li> <li>• Thieman, W.J. 2009, <i>Introduction to Biology</i>, 2 Ed.</li> </ul> </td> </tr> </tbody> </table>	Recommended Text	<ul style="list-style-type: none"> <li>• Thieman, W.J. 2009, <i>Introduction to Biology</i>, 2 Ed.</li> <li>• Thieman, W.J. 2009, <i>Introduction to Biology</i>, 2 Ed.</li> </ul>
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Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		