



UNIVERSITI TEKNOLOGI MARA
BIO250: SYSTEMS AND MAINTENANCE (PLANTS AND ANIMALS)

Course Name (English)	SYSTEMS AND MAINTENANCE (PLANTS AND ANIMALS) APPROVED
Course Code	BIO250
MQF Credit	4
Course Description	no description provided
Transferable Skills	Communication skills handling scientific equipment
Teaching Methodologies	Lectures, Lab Work
CLO	CLO1 State and explain the structure, process and function of systems in plants and animals CLO2 Identify, draw and label structure of systems in plants and animals CLO3 Observe structure and process in plants and animals; and acquire the skill of animal dissection
Pre-Requisite Courses	No course recommendations
Topics	
1. 1.0 Introduction to systems and their maintenance 1.1) n/a	
2. 2.0 Systems in Animals 2.1) 2.1 Homeostasis	
3. 2.0 Systems in Animals 3.1) 2.2 Respiratory	
4. 2.0 Systems in Animals 4.1) 2.3 Reproduction	
5. 2.0 Systems in Animals 5.1) 2.4 Circulatory	
6. 2.0 Systems in Animals 6.1) 2.5 Digestive	
7. 2.0 Systems in Animals 7.1) 2.6 Transport	
8. 2.0 Systems in Animals 8.1) 2.7 Immune	
9. 2.0 Systems in Animals 9.1) 2.8 Nervous	
10. 2.0 Systems in Animals 10.1) 2.9 Support	
11. 2.0 Systems in Animals 11.1) 2.10 Endocrine	
12. 3.0 Systems in Plant 12.1) 3.1 Reproduction/growth	
13. 3.0 Systems in Plant 13.1) 3.2 Transport	
14. 3.0 Systems in Plant 14.1) 3.3 Support	

15. 3.0 Systems in Plant

15.1) 3.4 Hormone

16. 3.0 Systems in Plant

16.1) 3.5 Phototaxis, chemotaxis, phototropism, geotropism

Assessment Breakdown	%
Continuous Assessment	40.00%
Final Assessment	60.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Lab Exercise	i. 1 lab session per week of 6 maximum per semester ii. Students need to prepare a lab report individually iii. 6 lab report x 10 marks will be converted to 10% iv. Refer lab manual provided by faculty	10%	CLO3
	Quiz	i. 3 quizzes minimum ii. To test understanding level of student at the end of topic	10%	CLO1 , CLO2
	Test	i. 3 test ii. Suggested 3 - 4 topic per test	20%	CLO1 , CLO2

Reading List	Recommended Text	<ul style="list-style-type: none"> • Marieb, E.N. 2000, <i>Essentials of Human Anatomy and Physiology</i>, 6 Ed., , Benjamin Cummings. [ISBN:]
	Reference Book Resources	<ul style="list-style-type: none"> • Martini, F. 2001, <i>Fundamentals of Anatomy and Physiology</i>, 5 Ed., , Prentice Hall [ISBN:] • Silverthorn, D., Mills, A., Johnson, B. 1998, <i>Laboratory Experiments in Physiology- Cuseum</i> , Ed., , Prentice Hall. [ISBN:] • Benjamin, C.L., Garman, G.R. &Funston, J.H. 1997, <i>Human Biology. Dubuque,</i>, Ed., , Iowa.WCB. [ISBN:]
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	