

## **UNIVERSITI TEKNOLOGI MARA**

## **BIO567: ENVIRONMENTAL SCIENCE**

Course Name (English)	ENVIRONMENTAL SCIENCE APPROVED			
Course Code	BIO567			
MQF Credit 3				
Course Description	This course introduces students to basic ecological principles, population, anthropogenic activities and their impact natural resources, environmental issues, environmental ethics keeping in mind the role of individuals, society to attain an environmentally just and sustainable world.			
Transferable Skills	Understanding of the natural environment and its anthropogenic impacts which is useful for society			
Teaching Methodologies	Lectures, Blended Learning, Self-directed Learning			
CLO	CLO1 Explain basic ecological and ecosystem principles and environmental sustainability CLO2 Describe human population growth CLO3 Explain anthropogenic impacts on natural resources and ecosystems in relation to carrying capacity CLO4 Discuss current global, regional and national environmental issues in relation to society and sustainable ethics			
Pre-Requisite Courses	No course recommendations			
Topics  1. 1.0 Introduction to Environmental Protection 1.1) 1.1 Environmental Science and Critical Thinking 1.2) 1.2 Environmental Sustainability 1.3) 1.3 Environmental Crisis  2. 2.0 Natural and Human Systems 2.1) 2.1 How Ecosystems Work 2.2) 2.2 Biomes and Aquatic Life Zones 2.3) 2.3 Self Sustaining Mechanisms in Ecosystems 2.4) 2.4 Human Ecology				
3. 3.0 The Population Challenge 3.1) 3.1 Population: Growth and Its Impact 3.2) 3.2 Stabilising Human Populations				
4. 4.0 Resource Issues 4.1) 4.1 Sustainable System of Agriculture 4.2) 4.2 Preserving Biological Diversity 4.3) 4.3 Grassland, Forests and Wilderness 4.4) 4.4 Water Resources 4.5) 4.5 Non Renewable and Renewable Energy 4.6) 4.6 Mineral Resources 4.7) 4.7 Sustainable Communities				
5. 5.0 Earths Carrying Capacity 5.1) 5.1 Principles of Toxicology 5.2) 5.2 Air and Noise Pollution 5.3) 5.3 Global Air Pollution 5.4) 5.4 Water Pollution 5.5) 5.5 Pests and Pesticides 5.6) 5.6 Hazardous and Solid Wastes				

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6. 6.0 Ethics, Economics and Environment
6.1) 6.1 Environmental Ethics
6.2) 6.2 Sustainable Economics: Industrial and Developing Nations
6.3) 6.3 Government and Society

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Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of				
Continuous	Assessment Type	Assessment Description	% of Total Mark	CLO
Assessment	Assignment	Assignment 1	15%	CLO1
	Assignment	Assignment 2	15%	CLO2
	Test	Test 1	20%	CLO3

Reading List	,	Cunningham P.A. & M.A. Cunningham 2008, Environmental Sciene, 4th Ed., McGraw Hill International Richard T. Wright, Dorothy F Boorse, Environmental Science, Pearson [ISBN: 1-292-02084-9] Miller, G.T & S.E Spoolman 2012, Living in the Environment, 18th Ed., Cengage	
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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