



UNIVERSITI TEKNOLOGI MARA

PMG552: TECHNOLOGY AND ENVIRONMENT

Course Name (English)	TECHNOLOGY AND ENVIRONMENT APPROVED
Course Code	PMG552
MQF Credit	3
Course Description	The advancement in Science and Technology has resulted in positive and negative effects to the environment. This course will explore the issues related to technology that applied and the effects either positive or negative to the environment. It also emphasize on the effective use of modern technology such as catalytic converter to reduce the negative impacts to environment.
Transferable Skills	Demonstrate ability to manage personal performance to meet expectations and demonstrate drive, determination, and accountability.
Teaching Methodologies	Lectures, Blended Learning, Tutorial, Presentation
CLO	CLO1 Assess the importance of technology in protecting the environment. CLO2 Explain the different technology used in Malaysia and other countries suitable for park and amenity management. CLO3 Evaluate the concept of technology and the importance of environment with human activity.
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction to Technology and Environment 1.1) Environment 1.2) Technology 1.3) Green Revolution	
2. Types of pollution and technology used in controlling pollution 2.1) Air, solid waste, waste water	
3. Environmental scarcity and poverty 3.1) Definition-environmental scarcity, scarcity, resource capture, ecological marginalization. 3.2) The P-P-E (Poverty-Population-Environment) Spiral. 3.3) Causes of poverty. 3.4) The Earth Summit	
4. Energy and environment 4.1) Definition of energy. 4.2) Sources of energy. 4.3) Environmental impacts associated with energy	
5. Technology in Agriculture 5.1) Precision agriculture technology. 5.2) Method used in precision agriculture.	

Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Group assignment	10%	CLO2
	Assignment	Individual Assignment	15%	CLO2
	Presentation	Group presentation	15%	CLO2
	Test	Sit in test	10%	CLO1

Reading List	Recommended Text	• Cunningham, W.P., Cunningham, M.A. 2008, <i>Environmental Science: A global concern</i> , 10th ed. Ed., Mc- graw Hill. USA
	Reference Book Resources	• Withgott, J.H. and Brennan S.R. 2007, <i>Environment: The Science Behind the Stories.</i> , 3rd ed Ed., Prentice Hall.
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	