

UNIVERSITI TEKNOLOGI MARA

BDY521: NATURAL RESOURCES ECONOMICS

Course Name (English)	NATURAL RESOURCES ECONOMICS APPROVED				
Course Code	BDY521				
MQF Credit	3				
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Course Description	This course provides opportunity for students to comprehend the basic economic concepts. Students will also learn the theories of efficient utilization of natural resources and discusses issues related to current practices of use of natural resources. It also discusses issues of sustainability, conservation, and preservation. Teaching methods include case studies, lectures, laboratory time and field work.				
Transferable Skills	On completion of the course the student will be able to apply the concept of natural economics into a sustainable management of natural resources and able to understand the issues on economic issues related to biodiversity management in planning.				
Teaching Methodologies	Lectures, Tutorial, Discussion				
CLO					
	CLO1 To explain the concepts and approach of basic economic. CLO2 To identify the theories of efficient utilization of natural				
	CLO3 To analyse issues related to current practices of use of natural resources				
	CLO4 To describe sustainability, conservation, and preservation				
Pre-Requisite Courses	No course recommendations				
Tania					
Topics					
1.1) The law of dimin	 Law of Diminishing Marginal Returns, Demand, Marginal Willingness to Pay The law of diminishing marginal utility The law of demand 				
2. Consumer Surplus; Law of Increasing Opportunity Cost, Supply 2.1) Supply and demand 2.2) Consumer surplus and producer surplus					
3. Types of Resources 3.1) Resource flows, natural resources and environmental resources					
4.1) Renewable and nonrenewable resources					
5. MAI Rule of Harvesting 5.1) Biological basic of trees and forest 5.2) The economics of forest harvesting					
6. Optimal Timber Harvesting Rules: Single Harvesting 6.1) Timber harvesting					
7. Safe Yield Use Principle of Ground Water 7.1) Principles of groundwater management 7.2) Sustainable groundwater use					
8. Equimarginal Principle of Allocation of Surface Water 8.1) Marginal user cost 8.2) Benefit-cost analysis					
9. Problems of Water Rights Transfer 9.1) Economic issues in water rights					

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10. Sustainable Fishery Harvesting Rules 10.1) Fishery management 10.2) Sustainable yield for fishery

11. Dynamic Model
11.1) The dynamic model of open access resources

12. Static Model

12.1) The static model of open access resources

13. John Rawl's sustainability principle as non declining welfare Solow-Hartwick 13.1) Sustainable development

14. Sustainability rule of non declining capital 14.1) Weak and strong sustainability

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Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of				
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assignment	20%	CLO3
	Discussion	Participation in class discussion	10%	CLO2
	Test	Test	20%	CLO1

Recommended Text	Tietenberg, T. H. & Lewis, L. 2018, <i>Environmental and Natu</i> Resource Economics, 11th Ed., Routledge, Taylor and Frai Group [ISBN: 9781138632301]			
Reference Book Resources	Hackett, S. & Sahan T. M. Dissanayake 2010, Environmental and Natural Resources Economics: Theory, Policy, and the Sustainable Society 4th Ed., Routledge, Taylor and Francis Group [ISBN: 978-076562494]			
This Course does not have any article/paper resources				
Book Field, B. C. 2016, Natural Resource Economics: An Introduction (3rd Ed.), Waveland Press. Book Perman R., Ma, Y., Common, M., Maddison D. & McGilvray, J. 2011, Natural Resource and Environmental Economics (4th Ed.), Pearson United Kingdom				
	Reference Book Resources This Course does Book Field, B. (Ed.), Waveland Book Perman F Natural Resour			

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