



UNIVERSITI TEKNOLOGI MARA

EVT575: ENVIRONMENTAL IMPACT ASSESSMENT

Course Name (English)	ENVIRONMENTAL IMPACT ASSESSMENT APPROVED
Course Code	EVT575
MQF Credit	3
Course Description	This course introduces students to a systematic process for predicting, and evaluating the significant environmental consequences of a proposed action or undertaking. Environmental impact assessment has been applied primarily to new development projects, such as power plants, highways, pipelines, dams, mines, airports, incinerators and landfills. Assessment processes have also been used to consider the implications of new technologies, plans, and policies that may result in significant social and biophysical effects. This course focuses on environmental assessment processes—what they are meant to accomplish, and how they are designed or should be designed to be effective, efficient and fair.
Transferable Skills	Students are able to prepare and present EIA reports based on DOE guidelines related to the prescribed activities.
Teaching Methodologies	Lectures, Case Study, Web Based Learning, Discussion
CLO	CLO1 Display the practical skills of environmental impact assessment process. CLO2 Perform the decision making skills in evaluation of EIA reports. CLO3 Demonstrates managerial skills in the mitigating measures for the environmental impact.
Pre-Requisite Courses	No course recommendations
Topics	
1. The EIA Procedure and Principle Features 1.1) 2.1 Types of assessments. 1.2) 2.2 Preliminary assessment. 1.3) 2.3 Detailed assessment.	
2. The Environmental Impact Assessment Process 2.1) 3.1 Screening and scoping. 2.2) 3.2 Methods for the identification of impacts. 2.3) 3.3 Checklist, matrices, network, overlay maps, expert judgment.	
3. Public Participation. 3.1) 4.1 Information dissemination. 3.2) 4.2 Consultation. 3.3) 4.3 Participation.	
4. Baseline Studies 4.1) 5.1 Physico-chemical environment. 4.2) 5.2 Socio economic. 4.3) 5.3 Architectural.	
5. Prediction and Assessment of Impacts 5.1) 6.1 Air pollution. 5.2) 6.2 Surface water. 5.3) 6.3 Noise. 5.4) 6.4 Soil and groundwater	
6. Impact Evaluation Methods. 6.1) 7.1 Formal impact evaluation. 6.2) 7.2 Monetary impact evaluation-cost benefit analysis. 6.3) 7.3 Non-monetary impact evaluation.	

7. Mitigation Measures for Environmental Impacts.

7.1) 8.1 Implementation of mitigation measures.

7.2) 8.2 Mitigation measures for specific environmental impacts.

8. Review of Environmental Impact Evaluation

8.1) 9.1 Detailed assessment.

8.2) 9.2 Preliminary assessment.

9. Post EIA

9.1) 10.1 Environmental Management Plan.

9.2) 10.2 Monitoring

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Group Assignment	20%	CLO1
	Multiple Choice Questions	Test	20%	CLO2
	Presentation	Group Video Presentation	20%	CLO3

Reading List	Recommended Text
	<ul style="list-style-type: none"> Noble, B. F. 2015, <i>Introduction to Environmental Impact Assessment: A Guide to Principles and Practice</i>, 3 Ed., Oxford University Press Toronto [ISBN: 978-019542962] IAEA Nuclear Energy Series 2014, <i>Managing Environmental Impact Assessment for Construction and Operation in New Nuclear Power Programmes (No. NG-T-3.11)</i>, International Atomic Energy Agency Vienna [ISBN: 9789201448101]
Reference Book Resources	<ul style="list-style-type: none"> Aaron J. MacKinnon, Peter N. Duinker, Tony R. Walker 2018, <i>The Application of Science in Environmental Impact Assessment</i>, Routledge Focus on Environment and Sustainability [ISBN: 9780815387299] Charles H. Eccleston 2017, <i>Environmental Impact Assessment: A Guide to Best Professional Practices</i>, CRC Press Boca Raton [ISBN: 9781439828748] Kevin S. Hanna 2016, <i>Environmental Impact Assessment</i>, Oxford University Press Canada [ISBN: 978019906625] Mandy Elliott 2014, <i>Environmental Impact Assessment in Australia: Theory and Practice</i>, 6 Ed., Federation Press Sydney [ISBN: 9781862879454]

Article/Paper List	This Course does not have any article/paper resources
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Other References	<ul style="list-style-type: none"> Website Department of Environment 2007, <i>Environmental Impact Assessment: Procedure and Requirements in Malaysia</i>, Department of Environment, Putrajaya http://www.doe.gov.my/eia/wp-content/uploads/2013/06/EIA-Procedure-and-Requirements-in-Malaysia.pdf Website Department of Environment 2010, <i>Environmental Requirements: A Guide for Investors</i>, Department of Environment, Putrajaya http://www.doe.gov.my/eia/wp-content/uploads/2012/03/A-Guide-For-Investors1.pdf
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