Liverpool John Moores University

Title:	ENVIRONMENTAL MANAGEMENT
Status:	Definitive
Code:	**6078UG** (102232)
Version Start Date:	01-08-2011
Owning School/Faculty:	Built Environment
Teaching School/Faculty:	Built Environment

Team	Leader
Matthew Tucker	Y
Alex Mason	

Academic Level:	FHEQ6	**Credit Value:**	12.00	**Total Delivered Hours:**	36.00
Total Learning Hours:	120	**Private Study:**	84		

Delivery Options
Course typically offered: Standard Year Long

Component	Contact Hours
Online	36.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	2000 word report	50.0	
Report	AS2	2000 word report	50.0	

Aims

To develop the students' understanding of global environmental problems and policies, including the core principle of sustainability, in the context of the application of environmental management systems in the construction industry.

Learning Outcomes

After completing the module the student should be able to:

1 Evaluate the global concept and application of sustainability within the context of the construction industry.
2 Analyse the relationships between the construction industry and informal and formal environmental management systems.
3 Evaluate the processes and tools available and their application to environmental management in the construction industry.
4 Critically analyse environmental impacts relating to current issues such as waste minimisation, air quality, water resources and management, and energy all applied in the context of construction work and finished structures.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

REPORT 1	1	3
REPORT 2	2	4

Outline Syllabus

Sustainability in the context of construction and properties.
Why manage the environment?
Informal and formal environmental management. Environmental management and sustainability. An introduction to formal environmental management systems.
Environmental management systems in a global context.
Methods and techniques of environmental audit.
Environmental management tools: such as
life cycle assessment; environmental labeling; developing sustainability indicators; ecological footprints.
Environmental management issues and case studies, such as waste minimisation; water resources and management; air quality; sustainable transport, and energy issues.

Learning Activities

This is a distance learning module using videoed lectures and workshop activities.

References

Course Material	Book
Author	O'Riordan, T.
Publishing Year	2000
Title	Environmental Science for Environmental Management
Subtitle	
Edition	2nd edition

Publisher	Longman
ISBN	978-0582356337

Course Material	Book
Author	Whitelaw, K.
Publishing Year	2004
Title	ISO 14001 Environmental Systems Handbook
Subtitle	
Edition	
Publisher	Butterworth-Heinemann Ltd
ISBN	978-0750648431

Course Material	Book
Author	Bell, S., & Morse, S.
Publishing Year	2003
Title	Sustainability indicators: measuring the immeasurable
Subtitle	
Edition	
Publisher	Earthscan
ISBN	978-1853834981

Course Material	Book
Author	Baker, S.
Publishing Year	2005
Title	Sustainable Development
Subtitle	
Edition	
Publisher	Routledge
ISBN	0415282101

Course Material	Book
Author	Glasson, J., Therivel, R., and Chadwick, A.
Publishing Year	0
Title	Introduction to Environmental Impact Assessment
Subtitle	
Edition	
Publisher	Taylor & Francis
ISBN	978-0415338370

Course Material	Book
Author	Morris, P. and Therivel, R.
Publishing Year	2003
Title	Methods of Environmental Impact Assessment
Subtitle	
Edition	2nd edition
Publisher	Routledge
ISBN	978-0415239592

Course Material	Book
Author	Wigginton, M. and Harris, J.
Publishing Year	2002
Title	Intelligent Skins
Subtitle	
Edition	
Publisher	Butterworth-Heinemann
ISBN	0-7506-4847-3

Course Material	Book
Author	Kibert, C.
Publishing Year	2005
Title	Sustainable Construction: Green Building Design and Delivery
Subtitle	
Edition	
Publisher	John Wiley&Sons
ISBN	

Course Material	Book
Author	Woolley T. and Kimmins, S
Publishing Year	1997
Title	Green Building Handbook volume 1
Subtitle	
Edition	
Publisher	E&F Spon
ISBN	0-419-22690-7

Course Material	Book
Author	Woolley T. and Kimmins, S.
Publishing Year	2000
Title	Green Building Handbook volume 2
Subtitle	
Edition	
Publisher	E&F Spon
ISBN	0-419-25380-7

Course Material	Book
Author	Carroll B. and Turpin T.
Publishing Year	2002
Title	Environmental Impact Assessment Handbook
Subtitle	
Edition	
Publisher	Thomas Telford Publishing
ISBN	0-7277-2781-8

Course Material	Book
Author	Halliday, S.
Publishing Year	2008
Title	Sustainable Construction
Subtitle	
Edition	
Publisher	Butterworth-Heinemann
ISBN	

Notes

The module develops students' understanding of environmental problems, including the core principle of sustainability, in the context of the application of construction work and structures. The students will be required to evaluate systems to improve the sustainability of construction work and apply specific principles to given case studies.