

Liverpool John Moores University

Title: Environmental Management and Technology
Status: Definitive
Code: **6000UGSL** (116927)
Version Start Date: 01-08-2011

Owning School/Faculty: Built Environment
Teaching School/Faculty: International College of Business and Technology

Team	Leader
Matthew Tucker	Y
Alex Mason	
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Academic Level: FHEQ6
Credit Value: 12.00
Total Delivered Hours: 36.00

Total Learning Hours: 120
Private Study: 84

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	24.000
Seminar	12.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	report	Environmental Report	50.0	
Essay	ESSAY	Sustainable Design Project	50.0	

Aims

To further the development of students' understanding of environmental problems and policies, including the core principle of sustainability, in the context of the application of environmental management systems across the public and private sector. Additionally the students will be introduced to 'green' technologies that can be specified in building works to reduce the impact of buildings on the environment.

Learning Outcomes

After completing the module the student should be able to:

- LO1 Evaluate the concept and application of sustainability.
- LO2 Identify feasible solutions to construction technologies that have an impact on the environment and specify 'green' building techniques in given case studies.
- LO3 Evaluate the processes and tools available and their application to environmental management in the context of construction.
- LO4 Determine the feasibility of alternative energy sources in different parts of the world for different types of building development.

Learning Outcomes of Assessments

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

AS2	LO 1	LO 3	LO 4
AS1	LO 2		

Outline Syllabus

Why manage the environment?

Informal and formal environmental management.

Environmental management and sustainability.

Methods and techniques of environmental audit.

Green construction technologies, sustainable development, design and construction

Environmental management tools such as BREEAM

Alternative energy sources

Reflection on personal beliefs and attitudes to the environment.

Learning Activities

Lectures, seminar debates and group working activities.

References

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

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	978-0750647431

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

Notes

The module furthers the development of students' understanding of environmental problems and solutions, including the core principle of sustainability. The module also encourages students to reflect on their own understanding and attitudes to the environment in a local and global context.