

## Liverpool John Moores University

Title: SUSTAINABLE POLICY AND LEGISLATION  
Status: Definitive  
Code: **7080BEPG** (119551)  
Version Start Date: 01-08-2013  
  
Owning School/Faculty: Built Environment  
Teaching School/Faculty: Built Environment

Team	Leader
Andrew Ross	Y
Eduardo Cordova-Lopez	

**Academic Level:** FHEQ7      **Credit Value:** 10.00      **Total Delivered Hours:** 26.00  
**Total Learning Hours:** 100      **Private Study:** 74

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Online	24.000

**Grading Basis:** 50 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	UNSEEN EXAM	60.0	2.00
Essay	AS2	2500 WORD ESSAY	40.0	

### Aims

*To provide students with knowledge such that they can critically examine International, European and National policies, legislation, regulations and incentives in the context of sustainability applied to the Built Environment.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Critically analyse the ways in which human activity impacts upon the environment, showing particularly the role played by the built environment.
- 2 Identify and critically evaluate environmental issues which concern the construction industry, showing how these issues are traditionally addressed
- 3 Understand the role of current environmental legislation, policy and tools in reducing the impact that the built environment has on the environment.
- 4 Critically evaluate the role that technology does (or must) play in achieving legislative goals for sustainability and suggest areas for improvement or innovation.

## Learning Outcomes of Assessments

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

EXAM	1	2
ESSAY	3	4

## Outline Syllabus

*Definition of sustainable development and a brief discussion of its history along with motivations for change such as climate change with specific examples.*

*Discussion of green design principles, including ecological design and how it can be implemented. Green roof schemes introduced in addition to the notion of the Urban Heat Island effect and how it can be counteracted.*

*Development of understanding in relation to emissions and associated policy for both transport and built environment. Regulatory moves to reduce emissions will be discussed, in addition to whether current ideas are truly fitting with the previously defined idea of sustainability.*

*Energy generation, distribution and policy will be discussed briefly, with a brief overview of topics such as Renewable Obligations and the Green Deal (for example). The EU energy agenda for 2020/2050 will also be discussed and methods by which this can be achieved alluded to.*

*Issues of waste in the built environment will be discussed, including land contamination issues and diversion of waste from landfill. In addition, technology specific waste issues will be discussed including waste electrical and electronic equipment (WEEE) and restriction of hazardous substances (RoHS) directives.*

*Issues of water and waste water will be discussed in terms of environmental impact and quality. Technical aspects will focus on metering and monitoring of waste water.*

*Discussion of how to make communities more sustainable through items such as energy saving, improved (bulk) transportation, waste management and effective food provision. Best practise examples given.*

*Introduction of environmental measurement tools such as waste strategy management, ecological/carbon foot printing and life cycle analysis.*

*In-depth discussion of ISO14001 alongside case studies of use and issues that environmental management systems can raise.*

## Learning Activities

Online lectures, interactive workshop.

## References

<b>Course Material</b>	Book
<b>Author</b>	Baker, S.
<b>Publishing Year</b>	2006
<b>Title</b>	Sustainable Development
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Routledge
<b>ISBN</b>	0415282101

<b>Course Material</b>	Book
<b>Author</b>	Edwards, B. and Turrent, D.
<b>Publishing Year</b>	2000
<b>Title</b>	Sustainable Development
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Spon Press
<b>ISBN</b>	0419246207

<b>Course Material</b>	Book
<b>Author</b>	Bell, S. and Morse, S.
<b>Publishing Year</b>	1999
<b>Title</b>	Sustainability Indicators: measuring the immeasurable
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Earthscan
<b>ISBN</b>	085383498X

<b>Course Material</b>	Book
<b>Author</b>	Glasson, J., Therivel, R., and Chadwick, A.
<b>Publishing Year</b>	2005
<b>Title</b>	Introduction to Environmental Impact Assessment
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Taylor & Francis

<b>ISBN</b>	978-0415338370
-------------	----------------

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

<b>Course Material</b>	Book
<b>Author</b>	Graham, P.
<b>Publishing Year</b>	2003
<b>Title</b>	Building Ecology: First Principles for a Sustainable Built Environment
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Blackwell Publishing
<b>ISBN</b>	0632064137

<b>Course Material</b>	Book
<b>Author</b>	Nathanail, C.P.
<b>Publishing Year</b>	2004
<b>Title</b>	Reclamation of Contaminated Land
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	John Wiley and Sons Ltd
<b>ISBN</b>	0471985617

---

## Notes

Considers the impact of human activity on the environment and develops an understanding of how the built infrastructure contributes to environmental change. Key policy and legislation will be introduced and critically analysed with respect to how this impacts on current trends in technology use. Green design principles, including ecological design and how it can be implemented will be presented. Green roof schemes will be introduced in addition to the notion of the Urban Heat Island effect and how it can be counteracted. Emissions and associated policy for both transport and built environment will be reviewed. Regulatory moves to reduce emissions will be discussed, in addition to whether current ideas are truly fitting with the previously defined concept of sustainability. The idea that sustainable design and green design are not always aligned will be debated. Issues of water and waste water will be discussed in terms of environmental impact and quality. Technical aspects will focus on metering and monitoring of waste water. Thus, the module will develop student ability or thoughts toward how technology in the built environment can reduce current environmental impact.

