

Module Title Sustainable Societies And Environments	Reference SSM223 SCQF SCQF Level 11 SCQF Points 15 ECTS Points 7.5 Created March 2016 Approved May 2016 Amended Version No. 1
Keywords Climate change, energy, environment, sustainability	

This Version is No Longer Current

The latest version of this module is available [here](#)

Prerequisites for Module

None in addition to course entry requirements or equivalent.

Public perceptions of new environmental technologies
'Responsible' innovation and ethical governance of technologies

Corequisite Modules

None.

Indicative Student Workload

	Full Time	Distance Learning
<i>Contact Hours</i>		
Lecture	10	0
Online Discussion	0	10
Recorded Lecture	0	10
Seminar	10	0

Precluded Modules

None.

Aims of Module

To provide students undertaking more social science or people?focussed studies with a grounding in the fundamentals of sustainability, energy and environmental change. To explore in particular the social and political implications of climate change, energy decisions and sustainability policy.

Directed Study

50 50

Private Study

80 80

Mode of Delivery

This is a lecture and seminar?based course. There will be directed study in the form of set reading to prepare for lectures and seminars, and

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

1. Critically discuss the basic principles of a range of sustainability and energy strategies that may help to mitigate climate change ? and of climate change itself.
2. Critically assess the social and political implications of different environmental sustainability outcomes.
3. Evaluate the implications of different sustainability and energy options for social responsibility and environmental governance.
4. Analyse the difficulties and opportunities for deploying sustainability and energy initiatives in different cultural contexts.

Indicative Module Content

Introduction to principles of energy, sustainability and climate change

Sustainability policy in the UK and global context

Overview of different 'supply side' energy technologies ? wind (onshore/offshore), wave/tidal, hydro. solar. geothermal. 'clean

private study to follow up on material discussed in class. All of this will feed into the final assessment and students are expected to attend lectures and contribute to seminars.

Assessment Plan

	Learning Outcomes Assessed
Component 1	1,2,3,4

Component 1 will be assessed by coursework.

Indicative Bibliography

1. MACKAY, D., 2009. *Sustainable energy - without the hot air*. Cambridge: UIT Press. Available to download for free at: www.withouthotair.com
2. REAY, D., 2005. *Climate change begins at home: life in the two-way street of global warming*. London: Macmillan.
3. ROBERTS, T., et al., 2013. *Low-carbon. Low-carbon energy controversies*. Routledge: London.
4. SALAMONE, R., and SAIJA, G., 2014. *Pathways to environmental sustainability: methodologies and experiences*. New York: Springer.
5. VAN DEN HOVEN, J., et al., 2014. *Responsible innovation 1: innovative solutions for global issues*. New York: Springer.

hydro, solar, geothermal, wind

coal' (carbon capture and storage), nuclear, fuel cells

Overview of societal initiatives to reduce environmental impacts
? energy efficiency, behaviour change