

MODULE SPECIFICATION

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Refer to guidance notes for completion of each section of the specification.

Module Code:	ENG449					
Module Title:	Project (Environmental Audit Case Study)					
Level:	4	Credit Value:	40			
Cost Centre(s):	GAME	HECoS code:	100549			
Faculty:	FAST	Module Leader:	D. Sprake			
Scheduled learnir	ng and teaching he	ours			48 hrs	
Placement tutor s			Click here to enter hours.hrs			
Supervised learni	• •	asses, workshops	Click here to enter hours. hrs			
Project supervision (level 6 projects and dissertation modules only)			Click here to enter hours. hrs			
Total contact hours			48 hrs			
Placement / work-based learning						
Guided independent study			352 hrs			
Module duration	(total hours)		400 hrs			
Programme(s) in	n which to be off	ered (not including e	xit awards)	Core	Option	
BEng (Hons) Low Carbon Energy, Efficiency and Sustainabili			nability	✓		
.						
Pre-requisites						
None						
Office use only Initial approval: 21/09/2020 With effect from: 28/09/2020 Date and details of revision:				Version Version		

Module Aims

To give the student a thorough understanding of the business activities of their workplace and its comprehensive associated environmental impact through a case study. To report this information in a professional format.

Module Learning Outcomes - at the end of this module, students will be able to				
1	Collate and describe specific work-related information and statistics relating to varied sources in different formats.			
2	Compile, collate and analyse information and data in suitable formats.			
3	Describe how to identify and evaluate the environmental impacts of an organisation or product/service.			
4	Research and present current UK environmental policy that relates to the business activities of the case study and assess its performance to current policy.			

Employability Skills The Wrexham Glyndŵr Graduate	I = included in module content A = included in module assessment N/A = not applicable
CORE ATTRIBUTES	
Engaged	1
Creative	1
Enterprising	1
Ethical	I
KEY ATTITUDES	
Commitment	A
Curiosity	A
Resilient	A
Confidence	A
Adaptability	I/A
PRACTICAL SKILLSETS	
Digital fluency	I/A
Organisation	A
Leadership and team working	N/A
Critical thinking	N/A
Emotional intelligence	I/A
Communication	A

Derogations

A derogation from regulations has been approved for this module which means that whilst the pass mark is 40% overall, each element of assessment (where there is more than one assessment) requires a minimum mark of 30%.

Assessment:

Indicative Assessment Tasks:

The assessment will be carried out using the student's own workplace as a case study for an environmental audit. The case study will include information gathering, writing and presenting of a report (5000 words) relating to energy usage and environmental impact of the business intended for use a senior management level. Typically, the student will be tasked to provide a range of audits containing the following sections:

- 1. Comprehensive data on electricity usage of the business and its origins/ impact.
- 2. Comprehensive data on gas usage of the business and its origins/ impact.
- 3. Data on any recycling and waste the business produces.
- 4. A life cycle environmental assessment of all the business activities including social and ecological impact.
- 5. A study of current installed infrastructure and its data regarding a range of related possible areas for energy saving i.e. compressed air schemes, insulation, lighting old and inefficient equipment.
- 6. Current government environmental and carbon policy relating to the case study business and how it complies.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1,2,3,4	Case Study	100%

Learning and Teaching Strategies:

Lectures

Formal lectures of facts and concepts relating to all aspects of environmental issues and its measurement (See syllabus below).

Tutorials

Regular 1 to 1 meeting with feedback and suggestions on progress.

Close interaction with students ensuring that the work presented during lectures has been understood with the use of real-world scenarios and problem-solving exercises, with specific help being given in order to overcome any learning problems.

Syllabus outline:

The syllabus will cover an up to date overview of the following topics:

- What is an environmental audit?
- Climate change.
- Energy usage.
- Carbon emissions.
- Other pollution forms and consequences.
- Life cycle analysis.
- Environmental audits.
- Ecology impacts.
- Waste and recycling.
- Insulation and heat loss.

Template updated: September 2019

Syllabus outline:

- Compressed air losses.
- Current UK government carbon and environmental policy.
- What business are expected to do?
- The future.

Indicative Bibliography:

Essential reading

Environmental Audit A Complete Guide - 2020 Edition, Gerardus Blokdyk. ASIN: B084L5XTLJ

Other indicative reading

Teaching materials
University resource finder
https://www.iema.net/

Template updated: September 2019