

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
Faculty	FAST
HECoS Code	100549
Cost Code	GAME

Programmes in which module to be offered

Programme title	Is the module core or option for this programme
BEng (Hons) Low Carbon Energy, Efficiency and Sustainability	Core

Pre-requisites

None

Breakdown of module hours

Learning and teaching hours	48 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	0 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
Total active learning and teaching hours	48 hrs
Placement / work based learning	0 hrs
Guided independent study	352 hrs
Module duration (total hours)	400 hrs

For office use only	
Initial approval date	21/09/2020

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With effect from date	Sept 2020
Date and details of revision	Sept 2022: template update and addition of AHEP4 LOs
Version number	2

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.

In addition to the module learning outcomes, students will also cover the following accreditation of higher education programme (AHEP) fourth edition learning outcomes: C1, C4, C6, C7 & C18.

Assessment

Indicative Assessment Tasks:

This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

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%

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%.

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.

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

Indicative Bibliography:

Please note the essential reads and other indicative reading are subject to annual review and update. Please *ensure correct referencing format is being followed as per University [Harvard Referencing Guidance](#)*.

Essential Reads

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

Other indicative reading

Teaching materials

University resource finder

<https://www.iema.net/>

Employability skills – the Glyndŵr Graduate

Each module and programme is designed to cover core Glyndŵr Graduate Attributes with the aim that each Graduate will leave Glyndŵr having achieved key employability skills as part of their study. The following attributes will be covered within this module either through the content or as part of the assessment. The programme is designed to cover all attributes and each module may cover different areas.

Guidance, from the following list, delete the attributes that are not covered by this module

Core Attributes

Engaged

Creative

Ethical

Key Attitudes

Commitment

Curiosity

Resilience

Confidence

Adaptability

Practical Skillsets

Digital Fluency

Organisation

Critical Thinking

Communication