Module specification

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

Module code	ENG503
Module title	Project
Level	5
Credit value	20
Faculty	FAST
Module Leader	Mr. N. Burdon
HECoS Code	100184
Cost Code	GAME

Programmes in which module to be offered

Programme title	Is the module core or option for this programme
HNC Electrical & Electronic Technology	Core
HNC Mechanical Technology	Core

Pre-requisites

None

Breakdown of module hours

Learning and teaching hours	20 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	**20** hrs
Placement / work based learning	0 hrs
Guided independent study	180 hrs
Module duration (total hours)	200 hrs

For office use only	
Initial approval date	August 2016

For office use only	
With effect from date	September 2021
Date and details of revision	6 July 2021, revalidated
Version number	Version 2

Module aims

Through work-based learning identify a novel solution to a plant related problem employing cost benefit analysis. Work independently to provide viable solution(s) identified liaising with both supervisor and line manager throughout.

Module Learning Outcomes - at the end of this module, students will be able to:

1	Identify engineering problems in the workplace and produce novel and cost effective solutions.
2	Apply knowledge and research principles to theoretical and practical problems.
3	Examine and apply the analytical techniques used to work on all stages of the project and strategies required to overcome the challenges involved in a research project. Apply awareness of technology in solving problems.
4	Apply knowledge of project management technique in completion of a project, including the adaptation of original research plans.
5	Critically analyse research results and to feed back the modification and/or further development process of the research plans.
6	Interpret ideas and conclusions in a manner and format which is congruent with accepted academic and scholarly standards within Engineering.

Assessment

Indicative Assessment Tasks:
Assessment is 100% in-course.

Assessment will be by means of a progress presentation and the submission of the final dissertation together with a final presentation and a viva. The presentation, four months after the start of the project for part time students, constitutes an important milestone to check progress, provide feedback and allow students to alter the project plan accordingly if needed.

Assessment 1: An interim presentation which covers progress and plans for completion of the dissertation. 10 mins in duration.

Assessment 2: A written dissertation (4000 words), which assesses all learning outcomes of the module, (plus an oral examination in the form of a presentation and a viva).

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	All	Presentation	10%
2	All	Report	90%

Derogations

None.

Learning and Teaching Strategies

The module tutor will complete initial briefings where project proposals are identified and confirmed as being appropriate and relevant to the subject area, and thereafter students will be allocated an individual project supervisor. Once the initial briefings are complete, students are normally seen individually on a rota basis (averaging about 20 hours total per student) by their supervisor. This practice enables slippage or the need for increased progress to be identified. Recognition of changes in employee work schedules due to organisational requirements can also be highlighted through this practice. As the project has a strong focus on the workplace, the project may be assessed by the module tutor in situ.

In the (rare) situations where a student's work environment does not support him/her in carrying out a project, a simulated work-based environment can be created using the laboratories and workshops at both of the partner institutions.

Indicative Syllabus Outline

Process of project selection
Forward a project plan, appraise feasibility, consider relevance to the industry within which the student works.

Project specification
Identify and record the technical and non-technical requirements relevant to the project.

Procedures
Planning and monitoring methodologies, methods of working, communication with line managers and training managers.

Implementation of project
Use appropriate tools and technologies, work within established timescale. Record progress including failures and problems.

Evaluate
Evaluate the outcomes of the project and its relevance to the students' vocational area.

Presentation
Produce a short (10 minute) presentation using appropriate visual aids to explain the value and relevance of the project.

Indicative Bibliography:

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads

Siegel N. G. (2019) Engineering Project Management. 1sted.Wiley

Smith, N.J. (2007) Engineering Project Management. 3rd ed. Blackwell Scientific.

Other indicative reading

n/a

Professional. **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. Click here to read more about the Glyndwr Graduate attributes

Core Attributes
Engaged
Enterprising
Creative
Ethical

Key Attitudes
Commitment
Curiosity
Resilience
Confidence
Adaptability

Practical Skillsets
Organisation
Leadership and Team working
Critical Thinking
Emotional Intelligence
Communication