

Module specification

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Module Code	ENG503
Module Title	Project
Level	5
Credit value	20
Faculty	FAST
HECoS Code	100184
Cost Code	GAME
Pre-requisite module	None

Programmes in which module to be offered

Programme title	Core/Optional/Standalone
HNC Electrical & Electronic Technology	Core
HNC Mechanical Technology	Core

Breakdown of module hours

Learning and teaching hours	20 hrs
Placement tutor support hours	0 hrs
Supervised learning hours e.g. practical classes, workshops	0 hrs
Project supervision hours	0 hrs
Active learning and teaching hours total	20 hrs
Placement hours	0 hrs
Guided independent study hours	180 hrs
Module duration (Total hours)	200 hrs

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. 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.

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

Assessment 2: A written dissertation, 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	Duration / Word Count	Weighting (%)	Alternative assessment, if applicable
1	All	Presentation	10 mins	10%	
2	All	Dissertation/Project	4000 words	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.

Welsh Elements

This module will be delivered through the medium of English; however, students have the option to submit their assessments in the medium of Welsh. While this module is not currently offered fully through Welsh, Welsh language support and guidance are available, and some learning materials or tutorial discussions may incorporate Welsh elements where appropriate.

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

Administrative Information

For office use only	
Initial approval date	August 2016
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Date and details of revision	6 July 2021, revalidated. 05/05/2026 updated to new template during re-validation.
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