Module Proforma

Approved, 2022.03

Summary Information

Module Code	4402CIVH
Formal Module Title	Hydraulics Group Project
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Manolia Andredaki	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings

Partner Module Team

Contact Name	Applies to all offerings	Offerings

Teaching Responsibility

LJMU Schools involved in Delivery
Civil Engineering and Built Environment

Learning Methods

Learning Method Type	Hours

Lecture	24
Practical	12
Workshop	12

Module Offering(s)

Offering Code	Location	Start Month	Duration
SEP-CTY	CTY	September	28 Weeks

Aims and Outcomes

Aims	To provide learners with an opportunity to develop the skills needed to devise and implement a realistic project scope and scheme of work and to evaluate and present a hydraulics related project as a group.To encourage learners to become confident and effective in managing own personal and professional skills.

Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Devise a project scope and scheme of work relating to a typical hydraulics related problem.
MLO2	Evaluate the group project and appraise its feasibility including environmental impact analysis, making recommendations for improvement.
MLO3	Present the project outcome including records of project development and group activity.
MLO4	Identify and reflect on their own personal and professional development during the project including the development of interpersonal and transferable skills.
MLO5	Identify and reflect upon the following aspects of personal development: strengths and weaknesses, motivations and values and ability to work with others.

Module Content

Outline Syllabus
Investigation and development of understanding of hydraulic principles relating to civil engineering projects.Group roles and activities: team roles and responsibilities; record keeping processes. Specification: client brief, constraints (environmental, operational, cost, time, etc.), legislation, quality control, health and safety.Developmental stage: mind mapping, appraisal and review, feasibility analysis, field data, costing, calculations, risk and impact assessments, method statements and drawings.Evaluation: initial proposal, final proposals, key decisions, group dynamics. Self- managed learning and learning styles: clear goal setting, dates for achievement, self- reflection, and personal preferences.Effective learning: skills of personal assessment, planning, organisation and evaluation, feedback, learning achievements and disappointments.Self-appraisal and portfolio building: skills audit, leadership skills, developing and maintaining a personal portfolio.Interpersonal and transferable skills: initiative, reliability, problem solving, team player, time management, effective listening.

Module Overview

Additional Information
This module will develop learners' skills in terms of the evaluation and resolution of realistic practical hydraulic problems and the ability to work as part of a team. It enables the application of knowledge, understanding and skills developed in other modules, and where possible experiences from employment, to a major piece of work. The module is designed to bring together small groups of learners into teams so that they can coordinate their individual skills and abilities.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Report 1	10	0	MLO5
Report	Report 2	90	0	MLO3, MLO5, MLO4, MLO2, MLO1