

Group Design Project

Module Information

2022.01, Approved

Summary Information

Module Code	7301MECH
Formal Module Title	Group Design Project
Owning School	Engineering
Career	Undergraduate
Credits	40
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Tutorial	22

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	28 Weeks

Aims and Outcomes

Aims	This module aims to provide an opportunity to work on a design project for an internal or external client to design a solution to an open-ended problem presented by the client. It will require students to work as a project team, demonstrate initiative, and work together the client to develop a design specification and project plan. The participants will select appropriate engineering and design processes and techniques to produce a solution which meets the specification.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Conceptualise and design a project for a client and apply good project management practices to manage a team's delivery of a programme of work.
MLO2	2	Research and critically evaluate information from an established body of knowledge to generate innovative solutions relating to the client's problem.
MLO3	3	Analyse complex open-ended problems presented by a client and apply engineering concepts and principles to produce a solution.
MLO4	4	Critically evaluate the designed solution and formulate justified conclusions.
MLO5	5	Communicate complex information to a client clearly and concisely.
MLO6	6	Demonstrate the ability to contribute effectively as a member of a project team.

Module Content

Outline Syllabus	Establishing project requirements in conjunction with an external or internal client. Project planning and control to ensure an efficient, timely and effective outcome which meets client expectations. Design delivery and execution of a technical design project, according to a plan. Communicate design solutions effectively using written reports and presentations.
Module Overview	
Additional Information	The project provides the opportunity to conduct a major learning activity on a relevant engineering or technical topic. The project requires the student group to demonstrate good project management, engineering skills application, critical evaluation and presentational skills in a team working environment.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Proposal & plan	20	0	MLO1
Report	Written report	70	0	MLO2, MLO3, MLO4, MLO5, MLO6
Presentation	Presentation	10	0	MLO5, MLO6

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Ian Jenkinson	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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