

Engineering Project

Module Information

2022.01, Approved

Summary Information

Module Code	6301MECH
Formal Module Title	Engineering Project
Owning School	Engineering
Career	Undergraduate
Credits	40
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Seminar	6
Tutorial	12

Module Offering(s)

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

Aims and Outcomes

Aims	The individual engineering project aims to provide a supervised but student led learning activity in a relevant area of engineering or technology. It aims to develop the academic, technical and organisational skills required to undertake a substantial individual engineering project from specification to conclusion. The project should be technical and investigative in nature and, generally, related to the engineering orientation of the programme.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Conceptualise a supervised but self-led project, stating appropriate aims and objectives.
MLO2	2	Demonstrate project planning with acknowledgement of the risk, security and ethics relevant to the individual project.
MLO3	3	Carry out a self-managed programme of work according to good project management practices.
MLO4	4	Research and critically analyse the established body of knowledge relevant to the project.
MLO5	5	Demonstrate deep technical understanding of their project.
MLO6	6	Communicate technical information clearly and concisely in written and oral forms.
MLO7	7	Critically evaluate all aspects of a project and formulate justified conclusions, making clear recommendations.

Module Content

Outline Syllabus	Projects may involve experiment, analysis, design and/or computation and should allow a student to demonstrate achievement of the module learning outcomes. The project should be an integrated exercise which consists of a technical, investigative process which acknowledges the wider commercial aspects of engineering.
Module Overview	
Additional Information	This module includes content which relates to the following UN Sustainable Development Goals. Due to the varied nature of the Individual Engineering Project, a number of different UN Sustainable Development Goals could be covered by a given project. In the formulation of the project proposal and development of the project aims and objectives, it is encouraged that the UN Sustainable Development Goals are considered and, where possible, integrated into the project. Development Goals might include:- Accessibility and sustainability when designing new products, alternative energy systems and energy recovery (SDG7, SDG10)- Waste and recycling when designing engineering solutions (SDG12)- Pollution prevention and waste treatment solutions (SDG14)

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Project Proposal & Plan	10	0	MLO1, MLO2, MLO6
Presentation	Presentation and Viva	30	0	MLO3, MLO4, MLO5, MLO6, MLO7
Dissertation	Final Report	60	0	MLO5, MLO6, MLO7

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Dan Stancioiu	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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