Engineering Project

Module Information

2022.01, Approved

Summary Information

Module Code	6555ELEMM
Formal Module Title	Engineering Project
Owning School	Engineering
Career	Undergraduate
Credits	30
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Auston College Myanmar, Yangon, Myanmar

Learning Methods

Learning Method Type	Hours
Seminar	4
Tutorial	11

Module Offering(s)

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

Aims and Outcomes

Aims	The 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.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Conceptualise and plan a supervised but self-led project
MLO2	2	Carry out a self-managed programme of work according to good project management practices
MLO3	3	Research and analyse the established body of knowledge relevant to the project
MLO4	4	Demonstrate deep technical understanding of their project
MLO5	5	Communicate technical information clearly and concisely in written and oral forms
MLO6	6	Critically evaluate all aspects of a project and formulate justified conclusions

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.
Module Overview	
Additional Information	The project provides the opportunity to conduct a major supervised learning activity on a relevant engineering or technical topic. The project requires the student to demonstrate good project management, critical evaluation and presentation skills.In the context of the MEng/BEng Computer Technology analysis may include mathematical analysis and computer modelling. However, it is expected that a greater emphasis on programmes applications, embedded systems and communications will be included in an integrated system. All project work will have a complete analysis, mathematically based or otherwise. In the context of the MEng/BEng Electronic Engineering, a Project with a detailed design and analysis of an electronic circuit or function is appropriate. In the context of the MEng/BEng Electrical Power Engineering, a Project with a detailed design and analysis of a power electrical/electronic circuit or system is appropriate. For example, modelling of a AC Machine or Inverter.In the context of the MEng/BEng Control and Automation Engineering, a Project with a detailed design and analysis of a control system is appropriate. For example, modelling, simulation and testing of a PID control system.In the context of the MEng/BEng Electronics and Software Engineering, a Project with a detailed design and analysis of a software/hardware interface is appropriate. In the context of the MEng/BEng Electrical and Electronic Engineering, a Project with a detailed design and analysis of an electrical/electronic circuit or function is appropriate. For example, embedded electronics may be used to control a power circuits such as a controlled rectifier for a specific task.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Interim Report	20	0	MLO1, MLO2, MLO3, MLO5

Dissertation	Final Report	50	0	MLO2, MLO3, MLO4, MLO5, MLO6
Presentation	Presentation, Viva and Poster	30	0	MLO4, MLO5, MLO6

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
David Ellis	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings