

Module Information

2022.01, Approved

Summary Information

Module Code	6556ELEICB
Formal Module Title	Mechatronics and Autonomous Systems Project
Owning School	Engineering
Career	Undergraduate
Credits	40
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
International College of Business and Technology

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 the area of Mechatronics and Autonomous Systems. It aims to develop the academic, technical and organisational skills required to undertake a substantial individual engineering project from specification to conclusion.
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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	The project should be relevant to the field of Mechatronics and Autonomous Systems. 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 in the field of mechatronics and autonomous systems. The project requires the student to demonstrate good project management, critical evaluation and presentation skills.

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
Portfolio	Presentation, Viva and Poster	30	0	MLO4, MLO5, MLO6

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Guangming Zhang	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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