

Liverpool John Moores University

Title: Mechatronics and Autonomous Systems Project
Status: Definitive
Code: **6356ELE** (126648)
Version Start Date: 01-08-2021

Owning School/Faculty: Engineering
Teaching School/Faculty: Engineering

Team	Leader
Zhigang Ji	Y

Academic Level: FHEQ6
Credit Value: 40
Total Delivered Hours: 15
Total Learning Hours: 400
Private Study: 385

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Seminar	4
Tutorial	11

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Interim Report	20	
Report	AS2	Final Report	50	
Presentation	AS3	Presentation, Viva and Poster	30	

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.

Learning Outcomes

After completing the module the student should be able to:

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

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Interim Report	1	2	3	5
Final Report	2	3	4	5
Presentation, Viva and Poster	4	5	6	

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.

Learning Activities

The project will be supported by regular tutorials with a project supervisor and occasional seminars on topics relating to research methods, critical writing/thinking and presentation skills.

Notes

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.