Artificial Intelligence

Module Information

2022.01, Approved

Summary Information

Module Code	7408ELE
Formal Module Title	Artificial Intelligence
Owning School	Engineering
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Lecture	22
Tutorial	22

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To provide students with the theoretical and practical skills required to design and implement artificial intelligence systems.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Select the appropriate artificial intelligence technique to solve an autonomous system problem
MLO2	2	Apply artificial intelligence techniques to the solution of problems
MLO3	3	Design and build part of an autonomous system using AI techniques

Module Content

Outline Syllabus	Machine learningKnowledge representationDeep neural networksConvolutional networksBack propagation
Module Overview	
Additional Information	This level 7 module explores the use of Artificial Intelligence techniques with particular focus on their application to autonomous systems. The skills acquired are required for the implementation of many autonomous system functions such as machine vision.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Examination	70	2	MLO1, MLO2
Practice	Autonomous design exercise	30	0	MLO3

Module Contacts