Knowledge Based Systems

Module Information

2022.01, Approved

Summary Information

Module Code	5522COMECA
Formal Module Title	Knowledge Based Systems
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Education Centre of Australia Pty Ltd

Learning Methods

Learning Method Type	Hours
Online	44

Module Offering(s)

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

Aims and Outcomes

Aims	To provide knowledge, understanding and experience on the development process, tools and techniques for producing knowledge–based and 'intelligent' systems.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Describe the nature of knowledge-based and multi-agent systems.
MLO2	2	Understand techniques used to facilitate Knowledge Based Systems.
MLO3	3	Evaluate methods of knowledge acquisition and processing for application to a real-world problem.
MLO4	4	Apply knowledge-based system techniques to construct a moderately sized intelligent system from a given set of requirements.

Module Content

Outline Syllabus	Knowledge Based Systems ArchitectureDevelopment of Knowledge Based SystemsKnowledge ManagementLogic and ReasoningEpistemic LogicAgentsAgent Knowledge Based Systems ComponentsMulti-Agent SystemsUncertain ReasoningModal LogicsAgent PlanningSystems' Simulation
Module Overview	
Additional Information	This module introduces the theory, methods, techniques and tools involved in the development of knowledge-based systems and intelligent systems.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Portfolio	Report	40	0	MLO1, MLO2
Exam	Technology	60	0	MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Martin Randles	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings