LIVERPOOL JOHN MOORES UNIVERSITY

Building Automation

Module Information

2022.01, Approved

Summary Information

Module Code	5505ICBTBS
Formal Module Title	Building Automation
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	15
Academic level	FHEQ Level 5
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
Lecture	45
Off Site	3
Tutorial	15

Module Offering(s)

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

Aims and Outcomes

Aims	Aim(s) of the module is to provide students knowledge and understanding on automatic centralization of all building services in a particular building.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Identify the basic principles of building automation.
MLO2	2	Demonstrate understanding on building automation system applications.
MLO3	3	Identify the energy efficiency through building automation.
MLO4	4	Identify the sustainability through building automation.

Module Content

Outline Syllabus	Introduction to building automation History of Building Automation, Building Types and Key Requirements, Current and Future Trends, Delivery of Building Automation SystemsBuilding Automation Systems Building HVAC Basics, Space Condition Controls, Air Handler Controls, Central Utilities, Energy Conservation Control Strategies, BAS Fire/Safety Systems, Security Systems, BAS Surveillance SystemsEnergy efficiency and sustainability implications Energy Efficiency, Operating and Maintenance Costs, Indoor Air Quality improvement, Occupant Comfort and Productivity
Module Overview	
Additional Information	

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Assignment	40	0	MLO1, MLO2
Test	Online Multi Choice Test	60	2	MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Alison Cotgrave	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings