

Liverpool John Moores University

Title: ADVANCED TOPICS IN INFORMATION SYSTEMS
Status: Definitive
Code: **6111COMP** (121272)
Version Start Date: 01-08-2021

Owning School/Faculty: Computer Science and Mathematics
Teaching School/Faculty: Computer Science and Mathematics

Team	Leader
Mark Taylor	Y

Academic Level: FHEQ6
Credit Value: 20
Total Delivered Hours: 55
Total Learning Hours: 200
Private Study: 145

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	22
Practical	11
Tutorial	22

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Information System Design	100	

Aims

To provide an understanding of the underlying technologies and concepts relating to advanced information systems.

Learning Outcomes

After completing the module the student should be able to:

- 1 Critically evaluate the technological options available for advanced information systems.
- 2 Critically evaluate the arguments, assumptions and abstract concepts underlying advanced information systems.
- 3 Identify a range of possible advanced information systems solutions for a given organisational problem.
- 4 Apply appropriate methods and techniques to the design of an advanced information system

Learning Outcomes of Assessments

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

Information System Design	1	2	3	4
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Outline Syllabus

Decision support systems
Decision support applications
Developing decision support systems
Evaluating decision support systems
Data mining approaches
Modelling and analysis
Geographical information systems
Collaborative systems
Web analytics
Knowledge based systems
Artificial intelligence

Learning Activities

Formal theory will be introduced via lectures and practical knowledge will be acquired via tutorials, practicals and coursework.

Notes

This module explores the theories and practical application of advanced information systems in organisations.