

Liverpool John Moores University

Title: Information Systems Development
Status: Definitive
Code: **3209FNDCMP** (127956)
Version Start Date: 01-08-2021

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

Team	Leader
Hulya Francis	Y
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Academic Level: FHEQ3 **Credit Value:** 20 **Total Delivered Hours:** 44
Total Learning Hours: 200 **Private Study:** 156

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	22
Practical	22

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Group report and presentation utilising appropriate tools/techniques to plan and design an information-oriented solution.	40	
Artefacts	AS2	Development and demonstration of an information system from a functional design using a database application.	60	

Aims

-To analyse a given industry oriented case-study.

*-To develop a computer based plan /design for a solution to a problem scenario.
 -To introduce students to the importance of structured analysis and design in order to produce effective and efficient diagrams which aid in the production and implementation of computer-based information systems.*

Learning Outcomes

After completing the module the student should be able to:

- 1 Describe the importance of information systems and their viability in organisations
- 2 Explain fact-finding techniques used for analysing the requirements when developing information systems
- 3 Transform information into meaningful diagrams for a database implementation
- 4 Design and develop a database using suitable diagrams
- 5 Demonstrate how a database can be tested and used to extract meaningful information

Learning Outcomes of Assessments

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

Report	1	2	3
System demonstration	4	5	

Outline Syllabus

- Identify what information is and consider fact finding techniques*
- Define the stages within the feasibility study*
- Identify and develop functional and data modelling techniques in order to produce Data Flow Diagrams and Entity Relationship Diagrams*
- Design and develop a database using the diagrams created from a relevant case study ensuring that correct data types, relevant formats and validation masks have been included and their importance to minimize data entry error*
- Consider the importance of screen design and navigation paths*
- Identify the need for security and maintenance when using databases*
- Evaluate the possible changeover methods available to organisations*

Learning Activities

Student-focused learning activities based on a combination of formal lectures and practical, experiential learning in laboratories, with supporting tutorials and seminars designed to reinforce and increase the student learning experience.

Theory oriented lectures followed by tutorials and where applicable lab-based practical sessions will be used in the module delivery.

Notes

This module enables the student to identify the importance of information and how information can be transformed into developing logical designs in order to develop a working database which will manipulate data to produce meaningful information for the end user.