# Liverpool John Moores University

Title:	Introductory Programming and Systems Analysis
Status:	Definitive but changes made
Code:	<b>4032ENG</b> (116924)
Version Start Date:	01-08-2016
Owning School/Faculty:	Electronics and Electrical Engineering
Teaching School/Faculty:	Electronics and Electrical Engineering

Team	Leader
Paul Otterson	Y
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Academic Level:	FHEQ4	Credit Value:	20	Total Delivered Hours:	72
Total Learning Hours:	200	Private Study:	128		

#### **Delivery Options**

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	24
Practical	48

# Grading Basis: 40 %

# Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Technology	TECH		50	
Technology	TECH		50	

#### Aims

To provide a basic foundation for the understanding of programming constructs and object orientation.

To develop an ability to analyse and model systems and thereby create databases and programmes for specific model application.

# Learning Outcomes

After completing the module the student should be able to:

- 1 Prepare a conceptual model of a system in a logical and systematic way.
- 2 Construct, test and demonstrate a programme using basic constructs
- 3 Critically appraise a system design, its construction and user interfaces

### Learning Outcomes of Assessments

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

Technology task 112Technology task 23

### **Outline Syllabus**

Data types Flowcharts Programme constructs Programme Design methods Classes, objects and events Systems Models

### **Learning Activities**

Lectures and practical use of software in computer lab

#### Notes

The module introduces students to the process of planning, developing simple programming applications using industry standard software such as Visual Studio and Access