# Liverpool John Moores University

Title:	PROGRAMMING (IN C)
Status:	Definitive
Code:	<b>4024TECH</b> (105418)
Version Start Date:	01-08-2011
Owning School/Faculty:	Engineering
Teaching School/Faculty:	Engineering

Team	emplid	Leader
Tony Moore		Y

Academic Level:	FHEQ4	Credit Value:	12.00	Total Delivered Hours:	48.00
Total Learning Hours:	120	Private Study:	72		

# **Delivery Options**

Course typically offered: Semester 2

Component	Contact Hours
Practical	24.000
Seminar	24.000

## Grading Basis: 40 %

#### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Facely	AS1	Coursework : Simple	40.0	Duration
Essay	AST	applications	40.0	
Essay	AS2	In class test: Test knowledge of programming fundamentals	20.0	
Essay	AS3	Coursework: Programming project	40.0	

### Aims

To introduce the student to the basic principles of programming in a high level language. To familiarise the student with most features of the C programming language.

## Learning Outcomes

After completing the module the student should be able to:

- 1 Write simple programmes using C or a similar language.
- 2 Interact with the operating system.
- 3 Produce a software application to solve a technical problem.

### Learning Outcomes of Assessments

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

CW	1		
CW	1	2	
CW	1	2	3

## **Outline Syllabus**

The programming environment.

Programming fundamentals, data types, variables, assigning properties, programme statements.

Conditional statements and constructs. Looping or decision making statements and constructs. Arrays, strings and structures. Functions, file I/O. Bit manipulation.

### Learning Activities

By a series of seminars and practical sessions. Students will be encouraged to work independently.

#### References

Course Material	Book
Author	Gottfried, B.
Publishing Year	1996
Title	Schaum's Outlines: Programming with C
Subtitle	
Edition	2nd ed
Publisher	McGraw Hill
ISBN	0070240353

Course Material Book	
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Author	Kernighan, B. and Richie, D
Publishing Year	1988
Title	The C Programming Language
Subtitle	
Edition	2nd ed
Publisher	
ISBN	0131103628

#### Notes

This module will introduce the student to the basic principles of programming in a high level language and familiarise the student with most features of the C programming language.