

**Summary Information**

<b>Module Code</b>	3518IFESG
<b>Formal Module Title</b>	Applied Mathematics 1
<b>Owning School</b>	Engineering
<b>Career</b>	Undergraduate
<b>Credits</b>	10
<b>Academic level</b>	FHEQ Level 3
<b>Grading Schema</b>	40

**Module Contacts****Module Leader**

<b>Contact Name</b>	<b>Applies to all offerings</b>	<b>Offerings</b>
Jack Mullett	Yes	N/A

**Module Team Member**

<b>Contact Name</b>	<b>Applies to all offerings</b>	<b>Offerings</b>
---------------------	---------------------------------	------------------

**Partner Module Team**

<b>Contact Name</b>	<b>Applies to all offerings</b>	<b>Offerings</b>
---------------------	---------------------------------	------------------

**Teaching Responsibility**

<b>LJMU Schools involved in Delivery</b>
LJMU Partner Taught

## Partner Teaching Institution

Institution Name
Study Group

## Learning Methods

Learning Method Type	Hours
Lecture	13
Seminar	26

## Module Offering(s)

Offering Code	Location	Start Month	Duration
JAN-PAR	PAR	January	12 Weeks
SEP-PAR	PAR	September	12 Weeks

## Aims and Outcomes

<b>Aims</b>	To introduce students to the principles of Applied Mathematics and to give students the grounding necessary to progress to an Engineering degree programme.
-------------	---

## Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Identify the appropriate functions, physical quantities and units involved in the mathematical description of a problem.
MLO2	Produce mathematical formulations and plots of vector quantities as well as calculate sums and products involving two or more different vectors.
MLO3	Predict the effects of forces on particles and the effect of moments on simple three-dimensional objects as a result of Newton's laws of motion.

## Module Content

Outline Syllabus
Basic mathematical concepts:- Working with physical quantities, units and significant figures- Introduction to trigonometric functions- Vectors: Mathematical and graphical representations Forces and Moments- Newton's laws of motion- Moments of forces"

## Module Overview

Additional Information
None

## Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Exam	Examination	100	1.5	MLO1, MLO2, MLO3