

### Summary Information

<b>Module Code</b>	3526IFESG
<b>Formal Module Title</b>	Introduction to Engineering Mathematics
<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

Contact Name	Applies to all offerings	Offerings
Lonnie Radioff	Yes	N/A

#### Module Team Member

Contact Name	Applies to all offerings	Offerings
Mohamed Kara-Mohamed	Yes	N/A

#### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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### Teaching Responsibility

LJMU Schools involved in Delivery
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
APR-PAR	PAR	April	12 Weeks
JAN-PAR	PAR	January	12 Weeks

## Aims and Outcomes

<b>Aims</b>	To provide students with an understanding of how computers can be used to solve mathematics and how mathematics packages may be used to solve engineering problems.
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## Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Select and apply standard mathematical techniques and methods to address real-world engineering problems.
MLO2	Demonstrate an understanding of matrices and vector spaces.
MLO3	Use and apply numerical methods to find numerical approximations and error estimates in a range of problems.
MLO4	Use and apply mathematical software to the solution of engineering mathematics problems.

## Module Content

Outline Syllabus
Matrices Vectors Numerical Methods

## Module Overview

## Additional Information

## Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Portfolio	Portfolio	100	0	MLO2, MLO1, MLO3, MLO4