Liverpool John Moores University

Title: Pure Maths 1
Status: Definitive
Code: **3510IFESG**   (124180)
Version Start Date: 01-08-2021

Owning School/Faculty: Engineering
Teaching School/Faculty: Study Group

Team	Leader
Jack Mullett	

Academic Level:	FHEQ3	**Credit Value:**	20	**Total Delivered Hours:**	79.5
Total Learning Hours:	200	**Private Study:**	120.5		

Delivery Options
Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours
Lecture	39
Seminar	24
Workshop	15

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	ASS1	two assessment items: planning document and seen VLE test	40	
Exam	ASS2	Examination (1.5 hours) with some short questions and a choice of longer questions.	60	1.5

Aims

To provide students with an understanding of mathematics in preparation for progression to first degree programmes in Science and Engineering. To develop skills in mathematical applications, methods and techniques.

Learning Outcomes

After completing the module the student should be able to:

1   Use mathematical notation, terminology, conventions and units correctly.
2   Interpret in mathematical terms verbal, graphical and tabular information.
3   Recognise and select mathematical methods suitable for the solution of problems.

Learning Outcomes of Assessments

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

Portfolio   1   2   3

Examination   1   2   3

Outline Syllabus

- *Algebra*
- *Co-ordinating Geometry, including points, lines and areas*
- *Trigonometry*
- *Introduction to Differentiation*
- *Introduction to Integration*
- *Handling data*
- *Vectors*

Learning Activities

A mix of lectures, seminars and workshops with in-class testing and homework to support independent learning. In each session the theory session is followed by a number of worked examples which are typical of, and lead to individual exercises for each unit. By listening to the theory and reading through the worked examples, the student should be able to make considerable progress with the exercise that follows.

Notes

None