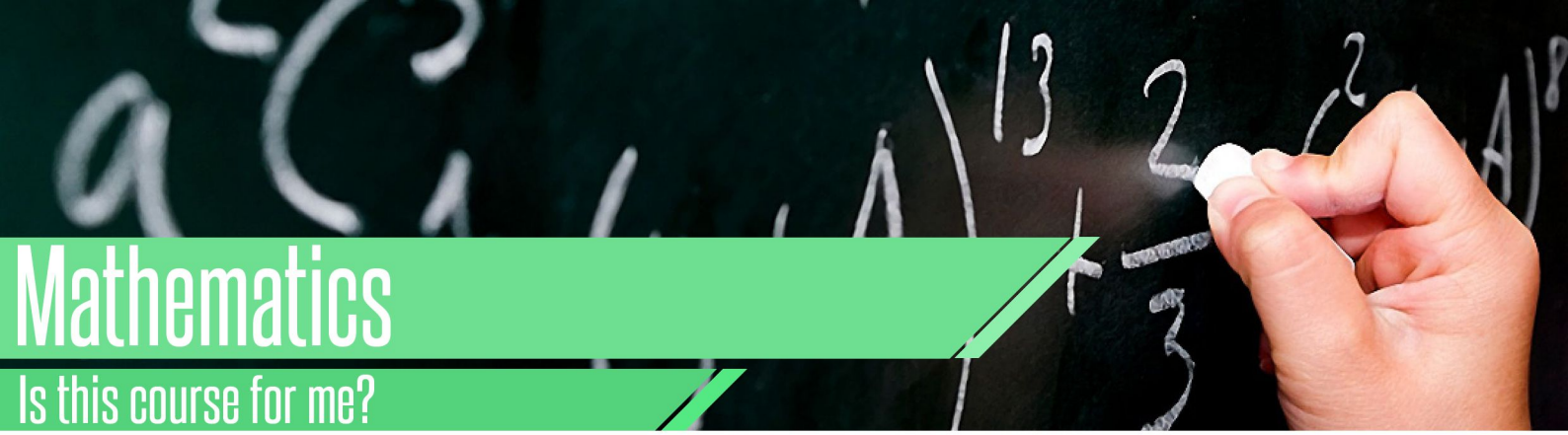

Mathematics

Is this course for me?

This course will appeal to those students who:

- Have an interest in Mathematics and problem solving
- Can cope with challenging concepts and don't give up easily
- Wish to apply for any university course which has some mathematical content.

Units of Study

Pure 1 (Year 1)

- Algebra and functions
- Coordinate Geometry
- Trigonometry
- Exponentials and logarithms
- Differentiation
- Integration
- Vectors
- Proof

Mechanics and Statistics (Year 1)

- Forces
- Data Presentation and Interpretation
- Kinematics
- Probability and Statistical Distributions
- Statistical Sampling and Hypothesis Testing

Pure (Year 2)

- Further Algebra
- Sequences
- Advanced Trigonometry
- Differentiation
- Integration
- Differential Equations
- Numerical Methods

Mechanics and Statistics (Year 2)

- Motion in 2 Dimensions
- Forces
- Probability
- Continuous Random Variables
- Hypothesis Testing

Entry Requirements

To follow an A-Level in Maths, students must have followed a higher GCSE course and achieved at least a Grade 7..

What will this course prepare me for?

Many university courses (eg. Sciences, Social Sciences, Geography, Engineering, Healthcare) have a significant mathematical content. A level Mathematics provides a good foundation for such courses by considering a wide range of applications of Mathematics. Employees value qualifications in Mathematics both in terms of the subject content and also the problem solving skills which students develop throughout the course.