

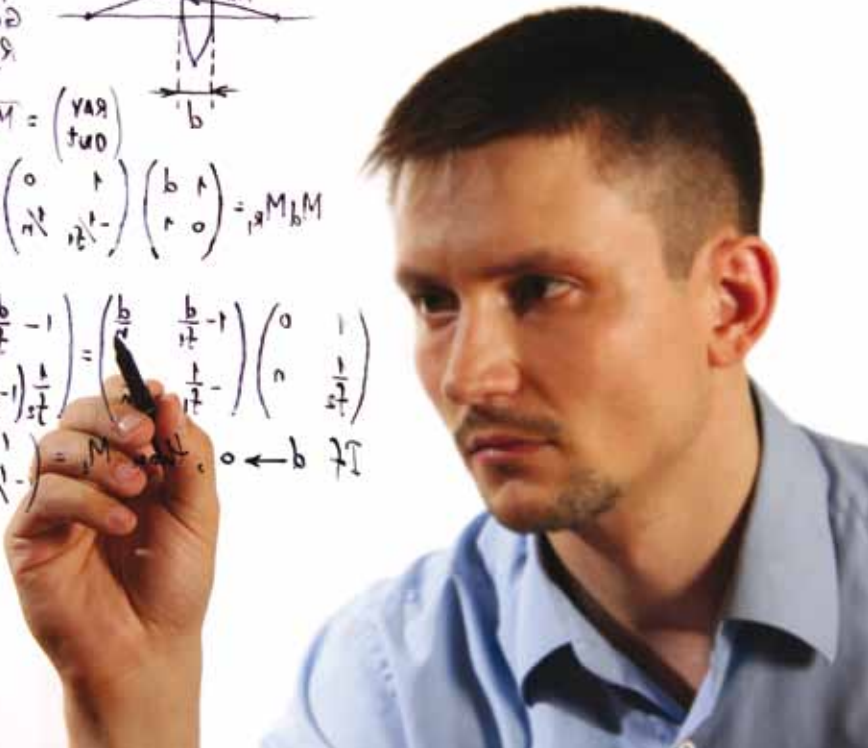
# Postgraduate Certificate in Teaching Further Mathematics

$$\begin{pmatrix} Y & A & R \\ n & 1 & \end{pmatrix} M^{-1} = \begin{pmatrix} Y & A & R \\ n & 1 & \end{pmatrix} \begin{pmatrix} 1 & & \\ & 1 & \\ & & 1 \end{pmatrix} = \begin{pmatrix} Y & A & R \\ n & 1 & \end{pmatrix}$$

$$\begin{pmatrix} \frac{b}{n} & & \\ & \frac{b}{n} - 1 & \\ & & 1 \end{pmatrix} = \begin{pmatrix} 0 & 1 & \\ & 1 & \\ & & 1 \end{pmatrix} \begin{pmatrix} b & 1 & \\ & 1 & \\ & & 1 \end{pmatrix} = M^{-1} M$$

$$\begin{pmatrix} \frac{b}{n} & & \\ & \frac{b}{n} - 1 & \\ & & 1 \end{pmatrix} = \begin{pmatrix} \frac{b}{n} & \frac{b}{n} - 1 & \\ & 1 & \\ & & 1 \end{pmatrix} \begin{pmatrix} 0 & 1 & \\ n & 1 & \\ & & 1 \end{pmatrix}$$

$$\begin{pmatrix} 0 & 1 & \\ & 1 & \\ & & 1 \end{pmatrix} = M^{-1} M \quad \leftarrow b \quad \text{if}$$



## Course Aims:

The course enables MEI TFM teachers to;

- develop theoretical and practical underpinnings for further mathematics teaching
- reflect upon learning and teaching process in further mathematics
- gain an understanding of the development of mathematical knowledge between GCSE and University level
- be awarded a Postgraduate Certificate, with the possibility of continuing beyond this to a full masters degree in Mathematics Education.

## Course Structure:

In addition to completing the Teaching Further Mathematics course, there are two university based modules:

### • **Module 1:**

#### Further Mathematics Pedagogy

There is one study day reflecting on the pedagogy used in the course in addition to the three TFM study days.

### • **Module 1 Assessment:**

#### Further Mathematics Pedagogy

In addition to the TFM portfolio, participants will submit one short and one longer essay, totalling around 5000 words.

### • **Module 2:**

#### Advanced Level Mathematics Classroom based enquiry

There are two study days for Module 2.

### • **Module 2 Assessment:**

Participants will submit a poster and an essay totalling around 5000 words, on a school/classroom based research enquiry in A level/Further Mathematics education.

## Timings for both modules:

The assignments can be completed alongside the TFM work or in the year following completion of TFM.

## Course Fees:

In addition to the TFM fee, the fee for completing the PG Certificate 2010/11 is £700.

## Application procedure:

To apply, email Sue Hancox  
[susan.hancox@warwick.ac.uk](mailto:susan.hancox@warwick.ac.uk)  
who will send you information about how to apply online.

## For further information please contact the Course Leader:

Sue Johnston-Wilder  
[sue.johnston-wilder@warwick.ac.uk](mailto:sue.johnston-wilder@warwick.ac.uk)

[www.go.warwick.ac.uk/maths](http://www.go.warwick.ac.uk/maths)

[www.furthermaths.org.uk/teacher\\_area/tfm.php](http://www.furthermaths.org.uk/teacher_area/tfm.php)

THE UNIVERSITY OF WARWICK

Institute of  
**EDUCATION**



THE UNIVERSITY OF  
**WARWICK**