

Teaching Further Mathematics 1 (TFM1)

January - July 2018

TFM is a professional development course offered by the Further Mathematics Support Programme (FMSP) and certificated by Mathematics in Education and Industry (MEI). TFM consists of two units, TFM1 and TFM2. **This document provides information about the first unit, TFM1.**

Over a period of 7 months, the TFM1 unit covers the following pure mathematics topics:

Matrices

Complex Numbers

Roots of polynomial equations

Summations and series

Proof by induction

Vector Geometry

Maclaurin series

Calculus

Hyperbolic functions

These topics feature in the further pure content of the reformed AS levels in further mathematics and in some A level further mathematics specifications for first teaching from September 2017.

The course fee for TFM1 is £300[§]

[§]Teachers working in state-funded schools or colleges in England are eligible for a subsidy which covers the cost of the full course fee (£300). The FMSP is supported by the Department for Education and teachers working in state-funded schools or colleges in England are eligible to receive a subsidy to cover the cost of the course. At the start of the course a fee of £300 is payable which is then reimbursed in full at the end of the course if there is evidence that the course delegate has engaged with the course content and has not withdrawn before the end date of the course unit. Evidence of engagement includes attendance of at face-to-face study days, participation in online tutorials and forum discussions and submission of the unit assignment issued at the end of the course.

Delegates enrolled on the TFM1 unit can expect:

- access to ten live online tutorials;
- to attend two study days;
- to receive text books to support their studies;
- access to online teaching and learning resources (integralmaths.org);
- email support from the unit tutor and access to an online group forum;
- a certificate issued on successful completion of the TFM1 unit assignment.

Online tutorials

TFM1 tutorials are scheduled in the evening on a week day. For delegates joining TFM1 in January 2018 the tutorials are scheduled approximately once every two to three weeks on Thursday evenings, 7.30pm-8.30pm. Tutorials are conducted using an online real-time web-conferencing platform. Dates and times for online sessions will be confirmed at the start of the course and published in the TFM1 unit handbook. All live sessions are recorded providing an opportunity for delegates to revisit the content of the tutorials as many times as they wish.

Face to face study days

There are two study days for TFM1. These take place in March 2018 and July 2018 for delegates joining TFM1 in January 2018. There is a choice of two dates/venues for the first study day: Friday 23rd March (Central London) or Saturday 24th March (University of Warwick, Coventry). Similarly there is a choice of two dates/venues for the second study day: Saturday 7th July (University of Warwick, Coventry) or Wednesday 11th July (Central London). Dates and venues for study days will be confirmed at the start of the course and published in the TFM1 unit handbook.

TFM1 unit assignment

To qualify for a certificate, a delegate will need to submit and pass an assignment at the end of the unit. The assignment will be to submit handwritten solutions for an exam-style paper; producing a list of common student errors and misconceptions relating to each question on the paper. In addition, delegates will be required to give a brief outline of a teaching idea or resource for each question that could be used to address one or more of the errors and misconceptions listed. We strongly encourage delegates to submit an assignment to help them consolidate what they have learnt. In particular, a good grasp of TFM1 is required before progression on to TFM2. *A place on TFM2, subject to availability, is not automatically guaranteed on completion on TFM1.*

TFM: Masters programme

Delegates enrolling on TFM1 in January 2018 will not be able to study at Masters Level in parallel with their TFM1 MEI-certificated course studies.

Further information

The **Further Mathematics Support Programme** is a government-funded initiative, supported by the Department for Education and is managed by MEI. The aims of the FMSP are to:

- Increase participation in AS/A level Mathematics and Further Mathematics, particularly that of girls and those from other under-represented groups;
- Increase capacity within schools and colleges to provide high quality mathematics teaching;
- Increase demand from students to study AS/A level Mathematics and Further Mathematics post-16;
- Support improvements in level 3 mathematics education.

These aims support the principle that all state-educated students throughout England should be able to access the mathematics education they need to fulfil their aspirations. Find out more about the Further Mathematics Support Programme: www.furthermaths.org.uk

Mathematics in Education and Industry (MEI) is a membership organisation and a charity which since the 1960s has worked to support mathematics teaching and learning. Any income generated is used to support mathematics education. MEI pioneers the development of innovative mathematics qualifications and teaching and learning resources. MEI offers teachers of all GCSE and A level specifications a range of continuing professional development courses, provides specialist tuition for students and works with industry to enhance mathematical skills in the workplace. MEI manages the government-funded Further Mathematics Support Programme.

Find out more about Mathematics in Education and Industry (MEI): www.mei.org.uk

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