

Teaching Further Mathematics 1 (TFM1)

January – July 2017

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 topics:

Matrices
Complex Numbers
Algebra: Identities and roots of equations
Summations and Proof by induction
Maclaurin series
Calculus
Hyperbolic functions
Vector Geometry

These topics feature in the further pure content of the reformed AS levels in further mathematics and in some A level further mathematics specifications (subject to accreditation by Ofqual) for first teaching in September 2017.

The course fee for TFM1 is £300*

**The fee is £200 for teachers currently working in a state funded school or college in England that offers A level Mathematics to post-16 students. The FMSP is funded through the Department for Education and as a result can only offer this subsidised fee to teachers working in state-funded schools or colleges in England.*

Delegates enrolled on the TFM1 unit can expect:

- access to ten live online tutorials;
- to attend two study days, both held on Saturdays;
- 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 2017 the tutorials are scheduled approximately once every two to three weeks on Thursday evenings, 7.30pm-8.30pm. Tutorials are conducted using Blackboard Collaborate; 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.

Study days

There are two study days for TFM1. For delegates joining TFM1 in January 2017, these are provisionally scheduled for Saturday 18th March 2017 (London) and Saturday 8th July 2017 (University of Warwick, Coventry).

TFM1 unit assignment

To qualify for a certificate, a delegate will need to submit 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. Certification is optional but 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 (TFM2 is next scheduled from February – August 2018 for delegates starting their TFM1 studies in January 2017).

TFM: Masters programme

Delegates enrolling on TFM1 in January 2017 will not be able to study at Masters level. It is only possible to study at Masters level if TFM1 enrolment starts in July.

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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