



Induction Course for New Lecturers in the Mathematical Sciences 2024

Isaac Newton Institute for Mathematical Sciences, Cambridge 16 – 17 September 2024

Through a community initiative supported by the Institute of Mathematics and its Applications, the Isaac Newton Institute for Mathematical Sciences and the Heads of Departments of Mathematics Sciences (HoDoMS) and endorsed by the Royal Statistical Society, the London Mathematical Society, and the Edinburgh Mathematical Society, we are delighted to announce that in September 2024 the two-day Induction Course for lecturers new to teaching mathematics and statistics within Higher Education will once again take place. The Induction Course is delivered as an in-person only activity to maximise the opportunities for informal networking and discussion that have long formed a highly valued part of this meeting.

The Induction Course for New Lecturers in the Mathematical Sciences has been designed by the mathematics community so that it is ideally suited for anyone who is new to or has limited experience teaching mathematics or statistics within UK higher education. It will be delivered by individuals with significant experience of teaching in the mathematical sciences and will focus upon the specific details and issues that arise in mathematics and statistics teaching and learning within higher education including topics such as:

- Lecturing.
- Supporting student learning.
- Making teaching interactive.
- Assessment and feedback.
- Linking teaching & research.
- Using technology to enhance teaching and learning.
- Using examples and mathematical problem solving.
- Teaching statistics and its applications.

Additionally, there will be significant opportunities for delegates to discuss their own ideas, challenges and experiences with the session facilitators so that individual queries can be answered.

Provisional Programme

Please note, the ordering of sessions is subject to change.

Monday 16 September 2024	
0915	Registration
0945	Welcome & introduction to the Isaac Newton Institute for Mathematical Sciences <i>Ulrike Tillmann, Isaac Newton Institute</i>
1000	<i>Lectures: have we learned nothing?</i> <i>Joe Kyle, University of Birmingham</i>
1115	How to teach mathematical thinking <i>Kevin Houston, University of Leeds</i>
1230	Lunch
1315	Making teaching in the mathematical sciences more interactive <i>Lara Alcock, Loughborough University</i>
1430	Just what can we reasonably expect our incoming undergraduates to know? <i>Louise Walker, University of Manchester</i>
1500	Tea / Coffee
1530	Linking teaching and research – planning for the future <i>Steve Otto, The R&A</i>
1630	Two years on: what I wish I’d known as a new lecturer in mathematics <i>Rose Wagstaffe, University of Manchester</i>
1715	Sharing challenges and experiences [Interactive Discussion]
1800	Check in to Accommodation
1930	Meet for travel to Dinner
2000	Dinner

Tuesday 17 September 2024	
0730	Breakfast
0900	Designing course assessments and the use of technology in assessment <i>Chris Sangwin, University of Edinburgh</i>
1015	Supporting students in the mathematical sciences <i>Louise Walker, University of Manchester</i>

1115	Tea / Coffee
1145	Statistical literacy – getting the message across <i>Rachel Hilliam, The Open University</i>
1300	Lunch
1345	Building Resilience to Future Challenges but learning from experience <i>Michael Grove, University of Birmingham</i>
1500	Sharing challenges and experiences [Interactive Discussion]
1530	Tea/Coffee and Close

Certification

In the past, attendance at the Induction Course has been recognised as contributing towards some institutional programmes in learning and teaching for new staff.

The Higher Education Services Area Committee of the IMA has reviewed the content and specification of the 2024 Induction Course relative to the UK Professional Standards Framework (UKPSF) for Teaching and Supporting Learning in Higher Education¹. As a consequence, the IMA will provide all participants who complete the Induction Course **in full** with a certificate confirming they have completed 12 hours of learning activities and that demonstrates how these activities align with the dimensions of the UKPSF. It is hoped that such certification will enable participants to receive recognition towards their own institutional training programmes as a result of attending this Induction Course.

Induction Course Costs

Following generous financial support from the Isaac Newton Institute for Mathematical Sciences and the Heads of Departments of Mathematical Sciences, we are able to offer the Induction Course at the following subsidised rates:

Full residential delegate rate* (Both days including all lunches, refreshments, Course dinner and accommodation on 18 September)	£229
Two-day delegate rate (Both days including all lunches, refreshments, Course dinner but <u>no</u> accommodation)	£179
Day delegate rate	£75

¹ <https://advance-he.ac.uk/knowledge-hub/professional-standards-framework-teaching-and-supporting-learning-higher-education-0>

(including lunch and refreshments)	
Induction Course dinner (as a separate purchase)	£56

* Please note that accommodation is allocated on a first-come-first served basis.

Contacts and Registration

Registration is now open via <https://my.ima.org.uk/>.

If you are an IMA Member or you have previously registered for an IMA conference, then you are already on our database. Please “*request a new password*” using the email address previously used, to log in.

For questions or queries about the academic content or structure of the Induction Course, please contact Michael Grove: m.j.grove@bham.ac.uk

For general conference queries please contact: conferences@ima.org.uk

For further details as they become available, please visit: <https://ima.org.uk/24056/induction-course-for-new-lecturers-in-the-mathematical-sciences-2024/>