

School of Mathematical Sciences

MSc Mathematical Physics DT9205 (full-time)/DT9206 (part-time)

Description

MSc Mathematical Physics is a postgraduate programme that can be studied either part time or full time. It is suitable for applicants with a strong mathematical background who wish to develop their knowledge and appreciation of advanced mathematical topics in preparation for research, or to enter highly technical or research-focussed roles in business and industry.

The full-time programme is three semesters (one-and-a-half years) in duration. Learners study the part-time programme over three years, with lectures delivered in the evenings to allow flexibility in balancing study with work and personal life.

Who is it for?

The programme is informed by knowledge from the forefront of the discipline. It is, therefore, well suited to anyone expecting to enter a professional role requiring advanced mathematical skills, as well as to those who wish to develop a deep insight into advanced and fundamental topics in mathematical physics either in preparation for research, or simply to satisfy a deep curiosity for the subject. Graduates gain a recognised postgraduate qualification and early exit awards are available at Postgraduate Certificate and Postgraduate Diploma levels. Full-time programmes are suitable for international students.

Careers

Graduates possess advanced knowledge and skills in a highly technical subject and are well placed to enter professional roles and modern careers in senior analytical and research roles. They are effective, enterprising, extremely flexible and highly sought after by employers in sectors from finance to ICT and the public sector.

more details overleaf...

For more information

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Features & content

- September entry and located in central Dublin
- options to study full time or part time
- evening delivery for part-time learners; friendly, approachable lecturers, experienced in supporting part-time students
- graduates are highly-qualified professionals and problem-solvers ready to take on senior analytical roles in industry or embark upon research
- delivered by the School of Mathematical Sciences, with topics approached from a mathematical perspective; applicants require a strong background in mathematics
- delivered by experts in the field and informed by current research in mathematical physics
- develop a deep knowledge and appreciation of advanced mathematical topics as a preparation for research or to enter highly technical, research-focussed roles in business and industry
- acquire the analytical skills for advanced professional and technical roles
- advanced topics: mathematical models of plasmas; general relativity & cosmology; quantum field theory; classical mechanics & thermodynamics; special relativity & tensor calculus; numerical methods; biomathematics

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Entry Requirements

- equivalent of an honours degree (level 8), at grade 2.2 or higher, in mathematics, or mathematical sciences or an honours degree where mathematics was studied as a very substantial component for at least three years
- equivalent of IELTS 6.0 (at least 5.5 in writing) if English is not first language

Recognition of prior learning will be used to assess the equivalence of other qualifications & experience

Other study opportunities

- full-time undergraduate programmes: DT205 / DT220
- part-time undergraduate programmes: higher certificate (DT6248); ordinary degree (DT7248); honours degree (DT8248)
- MSc Applied Mathematics FT/PT (Sept: DT9209/DT9210; Jan: DT9210/DT9212)
- degrees by research (MPhil & PhD)
- Postgraduate Certificate in Applied Statistics (DT9002)
- CPD Diploma in Data Analysis for Professionals (DT8998)

There is a programme to suit every entry point and individual modules can be studied as standalone CPD courses (please contact us).