

School of Mathematical Sciences

DT220 BSc (Honours) Industrial Mathematics

Description

DT220 BSc (Hons) Industrial Mathematics builds upon a broad-based introduction to specialise in latter years on topics that are of particular relevance and importance to careers in industry. In addition to developing a deep technical understanding of mathematics and its application to real-world problems, the programme develops the knowledge and non-technical skills required by employers.

Graduates possess strong problem-solving skills and are ready to embark on high-achieving careers. Graduates are also ready to proceed to graduate study and higher degrees by research.

Who is it for?

Anyone can study mathematics. Industrial mathematics is an interesting and relevant branch of mathematics that studies the skills most desirable in the workplace. The programme has been carefully structured to offer the training, transferable skills and knowledge that employers in the commercial, financial, industrial and public sectors seek in graduates. A focus of the programme is the analysis and solution of real-world mathematical problems and the use of industry-standard software.

Careers

The programme produces highly-skilled, numerate, flexible graduates who can formulate and apply cutting-edge modelling and statistical analysis, and apply problem-solving techniques to real-world problems. Examples of graduate roles are: quantitative analyst in financial services; data analyst in many sectors; industrial R&D roles; biostatistician in the pharmaceutical sector; actuary in the insurance industry; mathematics teacher; technical roles in business and industry.

more details overleaf...

For more information

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Features & content

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- a full-time programme in a central Dublin location that opens up careers across sectors
- friendly and experienced lecturers
- an extremely flexible qualification focussed on the knowledge and skills required by modern employers in business and industry
- graduates can progress to postgraduate study
- gain technical skills, advanced mathematical knowledge and develop practical graduate attributes
- a core of fundamental modules across pure & applied mathematics, statistics and optimisation, including financial mathematics
- develop problem-solving skills through group-work and mathematical modelling
- use technical and industry-standard software in practical laboratory sessions
- gain work experience through work placement in a partner company or organisation

The course itself is structured in such a way as to appeal to anyone with an interest in Mathematics and its applications.... Overall the course strikes the perfect balance between pure mathematics, more practical aspects, such as Financial Maths and Statistics, and computer oriented modules... the personal approach of the staff help to create an environment that is conducive to learning and this enhances the educational experience.

I would highly recommend this course to anyone with an interest in Mathematics and its applications...

Keith B. graduate

Entry Requirements

Entry is via CAO admissions system. We also welcome applications from international, mature and non-standard applicants. Please contact us.

Other study opportunities

- BSc (honours) Mathematical Sciences (DT205)
- part-time undergraduate programmes: higher certificate (DT6248); ordinary degree (DT7248); honours degree (DT8248)
- MSc Mathematical Physics (DT9205 FT / DT9206 PT)
- 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!

Individual modules can be studied as standalone CPD courses (please contact us).