



BSc Hons

FINANCIAL

ENGINEERING

with DIS

Introduction

This course is new for 2009 entry. It is located at the Coleraine campus and is the result of collaboration between the School of Computing & Information Engineering and the Department of Business, Retail & Financial Services. The overall aim of the programme is to provide a focussed study in financial engineering - a discipline which brings together 3 strands: (i) software development, (ii) mathematics and modelling and (iii) finance and securities. The skills developed in these three areas permit trading, hedging and investment decisions to be made as well as facilitating the risk management of those decisions. In summary assessing the financial risk associated with a range of financial instruments. Graduates from this course will be well placed to gain immediate employment in the financial engineering industry with the alternative of undertaking further postgraduate study in the area. The course content has been devised following extensive discussions with representatives from InvestNI, local industry, and other academic institutions.

FINANCIAL ENGINEERING



Structure

In year 1 of the course students study six modules and these modules will be suitable contextualised. Students will study modules such as software development, mathematics, web information systems, microeconomics and financial institutions and markets. In Year 2, students will extend their software development and mathematical modelling skills as well as acquiring additional skills in the areas of derivatives securities and financial instruments. Year 3 is spent on paid placement (work experience), in the UK, Ireland or Europe. Students can also study opt to study in the USA. These options lead to either the Diploma in Industrial Studies (placement year) or the Diploma in Area Studies if Year 3 is spent in study abroad.



In the fourth and final year of the course students will be faced with an element of choice from a range of optional modules including machine learning and data mining, computer networking and operational research methods. They will also study a module in project management and this will prepare them well for undertaking a significant project in the broad area of financial engineering. Studies Advisor will be able to provide suitable academic guidance.

Careers

Northern Ireland is very strong in the software, financial services and telecoms sectors and Invest NI (INI) has a strong commitment to the financial software sector as evidenced by a number of significant recent investments in the area. The timing of this new course is therefore most appropriate enhancing the wider vision for increased collaboration with relevant financial and banking companies in the USA which is being supported by the Northern Ireland government and INI. Successful graduates can thus expect to find their skills and abilities highly relevant to a range of suitable employment opportunities within financial software organisations.



Other Courses

The School of Computing & Information Engineering also delivers a number of other Computing courses. Leaflets describing these courses are available from the Faculty/School office.

To Apply

All applications must be made using the UCAS system. For more details visit: www.computing.ulster.ac.uk and follow the links to computing@coleraine.