



MSc
Big Data

MSc
Financial Technology (Fintech)



Be Stirling
BE THE DIFFERENCE

WHY STUDY AN MSc BIG DATA?

The Stirling MSc Big Data has been developed in partnership with global companies who employ data scientists. Over 90% of our students find work or further study within 6 months of finishing the course in diverse sectors such as banking and finance, health services, data science consultancy, data driven marketing and even sports science.

The course features a long summer project, where possible in partnership with a company or external organisation that provides students with a showcase of their skills to take to employers or launch online.

The MSc Big Data is a mix of practical technology such as Hadoop, NoSQL, and Map-Reduce, important maths and computing theory, and advanced computational techniques. The course will teach you what you need to know to collect, manage and analyse big, fast moving data for science or commerce.

Course Modules

- Mathematics for Data Science
- Statistics for Data Science
- Big Databases
- Big Data Analytics
- Hadoop and MapReduce
- Scientific and Commercial Applications
- Python Scripting

Contact information

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FOR FURTHER
INFORMATION
ON COURSE
CONTENT VISIT:
stir.ae/msc-bigdata



WHY STUDY AN MSc FINANCIAL TECHNOLOGY?

Banking and finance are undergoing a revolution driven by new technology and changes to regulations. New cryptocurrencies such as Bitcoin and Ethereum are changing the way people hold money and are driving a new boom in investment. Mobile currencies such as M-Pesa are empowering people across the world who would otherwise not have access to banking facilities.

This course has been developed in partnership with global organisations specifically to provide the skills that employers in the fintech industry need. Companies such as HSBC, Sainsbury's Bank, JP Morgan and MBN helped shape the course with employability firmly in mind.

This advanced taught postgraduate course combines the technology from big data and analytics, mobile computing and modern financial services.

Course Modules

- Blockchain Technology
- Cyber Security
- Contemporary Issues in Banking
- Relational and Non-relational Databases
- Representing and Manipulating Data
- Data Analytics
- Finance Apps and Open Banking
- Investment Regulation and Ethics
- Behavioural Finance
- Innovation Management
- New Venture Creation
- Professionalism, regulation and ethic in banking

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CAREER OPPORTUNITIES

Big data skills are in high demand. You will have opportunities with datadriven companies from a wide variety of sectors and command a salary that's typically higher than the IT average. As a graduate in Big Data you'll be able to work in a wide range of sectors, such as digital technologies, energy and utilities, financial services, public sector and healthcare. A degree in Big Data opens many career paths in different sectors: Banking and Finance, Data driven Marketing, Sport and Fitness, Health and Medicine, Engineering, Data Journalism, Mapping and GIS and New Media.

Fintech is a growth sector in its own right at the moment and there are opportunities across the career spectrum, from new and exciting start-up companies to established banks and insurance companies. The mix of computing, analytics and business skills you'll learn on the course will prepare you for a job in data science.

Graduates from a Big Data course find employment as:

- Banking and Finance
- Data Driven Marketing
- Sport and Fitness
- Health and Medicine
- Engineering
- Data Journalism
- Mapping and GIS
- New Media

Graduates with an FinTech qualification will find employment in sectors such as:

- Fund Management
- Security Dealing
- Financial Market Regulation
- Treasury Management
- Financial Engineering
- Corporate Finance
- Banking



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