Developing your Graduate Attributes through the MSc Programme in Financial Risk Management

The MSc programme in Financial Risk Management at Keele provides students with a diverse range of opportunities to acquire the intellectual, personal and professional capabilities that put our students in good standing to pursue further academic studies or a professional career.

Financial Risk Management draws upon a number of well-established disciplines that include economics, finance, mathematics and statistics to provide a theoretical framework and also develop quantitative tools for understanding and implementing successful decision-making in a risky environment. As a consequence, financial risk management is central to the sustainable performance of any organisation and market.

The range of electives available in the Financial Risk Management programme allow individuals considerable scope to tailor their own learning whilst also promoting the students’ ability to secure either postgraduate-level employment or engage in further postgraduate opportunities in the subject.

This document outlines the graduate attributes that are developed as a result of engaging in the Keele MSc programme in Financial Risk Management and explains how these attributed are embedded in the learning activities undertaken during postgraduate study. Participation in the compulsory elements of the programme will deliver the full range of skills and qualities that mark the Keele graduate as unique while engagement with our elective modules will develop or further deepen specific aspects of the attributes described.

Graduate Attributes
Through full engagement with one of our programmes you will develop:

1. an in-depth appreciation of the nature of financial risks and together with the capacity to design, investigate and evaluate effective strategies for financial risk management;

2. the ability to apply modern quantitative and technical methods of research to financial risk and use professional software tools for the systematic analysis of financial risk management techniques;

3. a capability to investigate financial and business data, including accounting information, financial market information and risk-metrics and integrate up-to-date factual knowledge about financial risk characteristics with theoretical models and analysis in order to explore and critically evaluate possible solutions to real world financial risk management problems;

4. information literacy, including the ability to gather, systematically evaluate and synthesise large amounts of information, ideas and data from a range of various data sources relevant to the study of financial risk management;
5. The capacity for the critical evaluation of arguments and evidence, including the ability to think critically about the limits of your analysis in practical real-life environment;

6. The capability to undertake and report various types of quantitative and qualitative information together with analysis, argument and commentary using relevant financial risk management concepts and methods in a well-balanced and concise manner to a wide-range of audience, exercising appropriate levels of scholarship;

7. A capacity for independent and self-managed learning, including the knowledge, skills, self-confidence and self-awareness to actively pursue your future goals, whether they be finance-related, or otherwise;

8. Knowledge and skills that enable you to develop independence and self-confidence in your work and the ability to work productively with colleagues and other individuals as an active citizen in the communities in which you live and work;

9. A professional and reflective approach, including qualities of leadership, responsibility, personal integrity, empathy, care and respect for others, recognising the importance of accountability and self-regulation;

10. An effective approach to learning and study, including time management, creativity and intellectual integrity demonstrating the flexibility to thrive in a rapidly changing and uncertain external environment and willing to update skills and knowledge as circumstances require.

**Realising the Graduate Attributes**

The above attributes are developed progressively during your time at Keele and may be enhanced depending upon the elective modules that are studied within the Programme and opportunities exploited outside of the academic curriculum. What follows are some key examples of where graduate attributes are developed in the MSc programme in Finance. Naturally, the development of these attributes will often overlap in practice, with some learning contexts developing several graduate attributes at the same time.

**Attribute 1**

The ability to appreciate the nature of financial risks and together with the capacity to design, investigate and evaluate effective strategies for financial risk management is developed through engagement with all core programme modules starting with “Financial Markets”, “Financial Derivatives” and “Fixed Income Securities and Credit Risk” in Semester 1 and extending through to “Portfolio Risk Management” in Semester 2. Together these facilitate the understanding of risk for investor behaviour and risk management in a financial markets’ context.

**Attribute 2**

The ability to apply modern quantitative methods for the systematic analysis of financial data and risk management is developed throughout the programme alongside the capability to deploy industry-standard software for data analysis. In Semester 1, the “Quantitative Methods in Finance” module equips students with a variety of mathematical and statistical methods and techniques which are widely applied in data
analysis and introduces the key statistical software used across the programme. “Applied Finance” in Semester 2 builds on the previous module and introduces advanced techniques in financial time series analysis and modelling together with a treatment of Value at Risk. Students further apply these skills to analyse and model financial market or company data as part of their dissertation.

**Attribute 3**
The ability to investigate financial and business data, including accounting information, financial market information and risk-metrics and integrate knowledge about financial risk characteristics with theoretical models to explore and critically evaluate possible solutions to real world financial risk management problems appears across the programme. The valuation and use of options, forward contracts, swaps and other derivatives for hedging and speculation, for example, are central to “Financial Derivatives” in Semester 1 whilst in Semester 2 students evaluate the application of volatility models of the risk premium and value at risk measures in “Applied Finance”.

**Attribute 4**
Information literacy is developed throughout the programmes and from different angles. “Quantitative Methods for Finance” pulls together and systemises basic skills for gathering, evaluation and synthesising quantitative financial information with “Applied Finance” further advancing these skills for applications in time series analysis. An additional professional dimension of informational literacy relating to risk-metrics is developed through the introduction and use of the Bloomberg Professional Services Platform across the programme. Information processing skills are developed further at the dissertation stage involving the development of literature search skills essential for essay and report writing in both academic and business environments.

**Attribute 5**
A problem-solving approach underpins much of finance and financial risk management and is adopted extensively in tutorial and lab class work throughout the Programme allowing an understanding of general principles to be acquired through the solution of specific problems. The ability to think critically about the results of such analysis is equally important, challenging assumptions and reviewing methods of analysis allows you to infer the limits of the approach and your understanding of a problem.

**Attribute 6**
Students further develop both written and verbal communication skills during their study of finance and receive feedback on their progress. Every module involves some form of written work: this may involve interpretation, analysis, reviews, reports and case studies, and also traditional essays. Multiple types of written assessment encourage students to deploy a variety of alternative writing skills across the programme, in settings that mimic opportunities to write for different audiences using relevant writing style and appropriate levels of scholarship throughout. Verbal communication skills are enhanced during informal class discussions and also formal presentations.

**Attribute 7**
By enabling students from respective student cohorts to work with both real-life problems in Finance and those of an academic nature, the Programme provides a variety of experiences and challenges to help individuals to develop the knowledge, skills, self-confidence and self-awareness to pursue future goals. Students are encouraged to pursue their personal interests and maximise their self-confidence and employability by pursuing a topic of interest which they can choose from a wide range of supported areas.

**Attributes 8 and 9**
The ability and motivation to participate responsibly and collaboratively as an active citizen in the communities in which you live and work is developed both through the team work activities within the programme and also in various co-curricular opportunities. Qualities of leadership, responsibility, personal integrity, empathy, care and respect for others, accountability and self-regulation are fostered through opportunities for tutorial participation and group work. The multinational and multicultural diversity of students in our programmes provide a rich environment for the development of these essential qualities.

The programme seeks to empower individuals to develop a professional and reflective approach to their studies and future career. Throughout the course, emphasis is placed firmly upon the individual taking responsibility for their own learning, supported at all stages by professional staff. This encourages a reflective approach to learning that identifies and overcomes weaknesses, whilst recognising the importance of planning and target-setting.

**Attribute 10**
Studying, theorising and solving emerging and topical issues in financial risk management enables students to gain a unique understanding and experience in a variety of business and professional settings. This helps students develop the wide outlook and skills necessary to thrive in a diverse range of careers after completing the programme. The MSc programme in Financial Risk Management focuses on developing an understanding of the nature and implications of risk for decision-making in an ever-changing economic, global and social environment for investors, businesses and government. The research-led ethos of the Economics and Finance Group means that students will be introduced to the latest developments and thinking in the field through diverse readings and empirical research, led by highly trained and experienced lecturers and tutors.