It aims to achieve this goal through the learning experiences, skills and competencies offered s complex organisations and turbulent business environments. Also, the aim of the programme is to educate individuals as cyber security and data science professionals; to address skill shortages in this area and to facilitate career advancement. In particular, the programme provides preparation for and/or development of a career in cyber security and/or data science management, or any management position where the assessment of risk and analysis of data plays a significant role.

The course content emphasises the practical application of cyber security concepts to solve practical problems and focuses on providing insight into how cyber security is implemented, managed and governed by organisations of differing sizes and industry focus. The programme is structured with a significant emphasis upon meeting professional and business development needs as well as enabling professionals and graduates to develop as:

Professionals with a sound knowledge of the theoretical foundations that apply to modern technology being adopted by the industry. These are fast-evolving areas of specialisation and areas of strategic importance to businesses as they embrace digitalisation and technological change.

Critically aware learners who can either pursue further studies in Data Science or Cyber Security at a Doctoral level or who wish to complete their professional papers and gain professional experience within that sphere. Some will wish to advance or change their

Reflect and understand data sources, data models, design, data analysis and implications for data managers businesses with a focus on improving the data experience.
Develop an understanding of cyber security concepts and its practical application to solve common challenges in securing enterprises across different industry sectors.
Understanding how to assess cyber security risks across new technologies and develop risk mitigating controls to manage the risks.
Be familiar with emerging technology trends and the impact on traditional cyber security concepts.

Practice and Skills

Upon completion of the Programme students should be able to:

Practice, conforming to the ethical expectations of the data management and cyber security profession.
Engage with and critically view the key debates in data management in organisations and the professions.
Apply the strategic skills required and operate effectively in the context of digital technologies in complex, changing environments.
Work independently as well as effective members and /or leaders of teams;
Develop independent research skills to solve strategically important and complex problems and communicate in an appropriate manner.
Independently engage with and format appropriate primary and secondary information related to research in data management and cyber security and apply to a significant project or dissertation.
Acquire technical and communication skills including the ability to present quantitative and qualitative information together with analysis argument and commentary
Conduct data analysis and evaluation directed at answering specific questions having the ability to choose from a range of available tools and technologies

Relevant Subject Benchmark Statements and other reference points to inform programme outcomes

2015 (QAA)
The Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies (2014) The Revised UK Quality Code for Higher Education (QAA) March 2018.

17. Programme Structure, Levels, Modules and Credits

Programme Title	**MSc Cyber Security Management**	

Module Titles

techniques, directed reading, critical reflection, personal research, applied research encourage engagement by students in their teaching and learning processes. In addition, case study analysis and discussion are used by students to contextualise the learning and the application of models, techniques and concepts.

Knowledge and understanding is developed through the teaching and learning methods outlined above. Each class, whatever its particular format, involves discussion of key issues, practice in applying concepts, both orally and in writing, analysis and interpretation of material, critical evaluation.

The online version of the programme will share the same aims and principles of the face to face version, with the specific approach that it will be delivered remotely through a virtual learning environment where written and multimedia materials will be provided. The modules will be taught by lecturers with a similar profile to the face to face version, while the delivery and access to the faculty will be adapted to the specific requirements of the online format.

Assessment Methods

A wide range of assessment methods will be used across all modules to ensure that programme outcomes can be demonstrated by students. The assessment methods are intended to underpin the learning process. There is both formative and summative feedback. Formative assessment of knowledge and understanding will take place through the regular activities within workshops.

These (both formative and summative) may(or)

Summative assessments of each module will be one of the following:

- written reports (formative element in the form of lecturer giving guidance on structure and general content)
- portfolio, where students compile a