DBS

Dublin Business School

POSTGRADUATE STUDY ABROAD CATALOGUE

Contents

How to use this catalogue and record your choices

1. Choose your electives modules/course in order of preference 1 to 10 (the most important first (Number 1), the least important = Number 10
2. Include the module or course code
3. Indicate the exact number of modules/courses required and the credits required

Please note for modules of a technical or specialised nature specific programme entry requirements will be required.

Number of Courses/Modules Required		<insert>	Credits Required	<insert>
Choice	Title	Code		
Example	Introduction to Politics	A6AR004		
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Please consult your international office for approval for all courses. All courses are run subject to demand. Dublin Business School reserves the right to alter or withdraw any of the courses or programmes described in this document. While every effort has been made to ensure the information contained in this document is correct, the College is not liable for any errors and omissions.

Note: Course/Modules are approved and scheduled based on:
1. Order of preference
2. If a timetable conflict exists the highest preference is given
3. The number modules/courses scheduled will be the number indicated here.
4. Please note for modules of a technical or specialised nature specific programme entry requirements will be required.

School of Arts - Spring Semester Options

A9AS101 - Dialogical Meanings in Addiction: Theory, Practice and Policy

This module introduces and critical evaluation of the main approaches within the addiction field. This module follows a multi-dimensional approach to addiction through examination of the major theoretical perspectives, treatment and rehabilitation services and policies within a social context. It emphasises the application of theory into practice and examines implementation through social policy.

A9AS102 - A Psychoanalytic Perspective on Addiction

This module offers an in-depth exploration of addiction as one of the dominant psychopathologies of our time from the point of view of the subject. This exploration will take place predominantly from within the field of the Freudian-Lacanian orientation and it includes the various aspects involved in the treatment of addicted subjects, with specific emphasis on the relationship between, on one side, the addict and, the other, the clinician and/or institution that treats the addict, a relationship that is otherwise known as the transference.

A9AS106 - Women and Addiction

This module introduces and critical evaluation of the main gender issues within the addiction field. By incorporating a multi-dimensional approach to addiction, this module examines the major theoretical perspectives, treatment and rehabilitation services and policies within the context of gender. It emphasises the application of theory into practice.

A9PS111 - Motivation

This module examines workplace motivation and leadership from the perspective of Positive Psychology. Focusing on factors that enable individuals and organisations to thrive, implications are drawn for promoting work-related attitudes, employee motivation and effective leadership. Applications are based on areas of Positive Psychology, including well-being, grit, positive emotions, strengths and creativity. The link between the positive psychological concepts of flow and mindfulness to work-related attitudes of engagement, satisfaction, and commitment is examined. Motivational approaches that incorporate Positive Psychology are explored, including self-determination, goal-setting, fairness and justice.

A9PS128 - The Psychological Practitioner and the Therapeutic Relationship

This module content centres on the Psychological practitioner and therapeutic relationship and incorporates teaching on a variety of schools of thought relating to Psychology practice. The module encourages the design and implementation of strategies for personal and professional development as well as skills for working within social or Psychological practice. It also examines the role of the practitioner and the challenges they might face. Students will explore a variety of schools of thought, such as, Person Centred Therapy, Cognitive Behavioural Therapy, Existential Therapy, and Creative Therapies. There is a strong emphasis on class participation, reflective practice, case study analysis, and personal development through role play and triad work. The role of the therapeutic relationship is examined in depth, with a view to developing both an ethical and a self-questioning approach to Psychological work.

School of Business & Law - Spring Semester Options

B8BU110 – Business Strategy (Capstone)

The module will provide learners with the knowledge, skills, and tools necessary to critically appraise and respond to the increasingly complex, global, volatile, and dynamic context in which organisations function today. Learners will carry detailed evaluative studies of the nature of strategy content, and of strategic processes, in a variety of industry and organisation settings. This will serve to enhance learners' business research and problem-solving capabilities with future career development sharply in focus.

B8MN113 - Human Capital Management

The module provides learners with a comprehensive and modern review of talent planning, management and resourcing. Students will learn how Human Resource (HR) specialists demonstrably add value in pursuit of competitive advantage and organisational sustainability. Among other contemporary issues, learners will be introduced to the complexity surrounding the reconfiguration of the HR role, the impact of culture on HR performance, the rise of the HR business partner, the potential of e-enabled HR and HR outsourcing opportunities. This module also includes an assessment of the traditional HR activities, recruitment and selection, training and development and associated sophisticated policies and practices.

B9MG007 - Global Issues for Management

The module will equip learners with the knowledge and skills to take a holistic, environmental, analytical and critical approach to major issues in the management of organisations in a global context. This module is a fundamental module upon which all other modules which comprise the Master of Business Administration are built on and speaks to the wider context of management and the opportunities and challenges which an organisation must deal with within the global and domestic context. The module balances teamwork which is core to all management structures with a mastery of management theory.

B9MG008 - Strategic Marketing Analysis

Marketing is a concern for all people and organisations at all times. Successful marketing analysis is based on an organisation wide philosophy that identifies, selects, provides, communicates and delivers value to chosen customer groups. Marketing analysis as a management subject consists of a set of concepts and principles for choosing target markets, evaluating customer needs, developing products and services that satisfy wants, delivering value to customers and profit or benefit to the company or organisation. This module is designed to provide a thorough emphasis on the managerial perspective of marketing analysis. Learners will apply specific analytical marketing tools and marketing frameworks for evaluating companies' marketing-mix that take best advantage of the conditions in which the firm finds itself. A strategic marketing analysis approach is evident throughout the module design and delivery. In all seminars, learners will be required to analyse marketing practices in relation to different marketing case studies. Their individual assessment will be the analysis of a company marketing strategy following a systematic approach.

B9MG009 - Managerial Financial Analysis

The module provides the learner with the knowledge, skills, concepts and tools necessary to understand, and respond to, the increasingly complex, volatile and dynamic financial world. The module will provide a financial decision-making platform for business managers. This module will enable participants to develop a knowledge and understanding of the implications of financial information and an ability to apply this information to practical management scenarios.

B9MG100 - Business Strategy

The module will provide students with the awareness, knowledge, skills, concepts, and tools necessary to critically appraise and respond to, the increasingly complex, global, volatile, and dynamic context in which organisational strategy formulation and implementation function today by making a detailed evaluative study of the nature of strategy content, and of strategic processes, in a variety or organisational/industry settings designed to enhance students' business research and problem-solving capabilities with their future career development sharply in focus.

B9MG115 - Innovation and Disruptive Technologies

This module provides learners with the key concepts of innovation and disruptive technologies that ensure businesses are fit for purpose in a digitally empowered world. In every industry, the introduction of innovative digital technologies and the rise of new disruptive opportunities or threats are transforming business models and processes. To stay competitive, companies must fundamentally change how they operate. This module equips learners to evaluate new innovations and disruptive technologies that enable organisations to profit from technological developments, and understand how companies can take advantage of various technological advances by changing business processes, and offering new products and solutions.

B9MG117 - Project Management Frameworks

This module aims to develop the learners understanding of the context of the project management environment, whilst developing specific skills in project management. The subject of project management is increasingly multi-disciplinary in nature and this module reflects this by providing you with an understanding of the social, organisational, behavioural and systems issues of project management. In addition to provide understanding of the subject of project management the module will introduce several tools and techniques for managing activities throughout the project life cycle.
The module is set in the context of the management function and a business setting and ensures the learner is capable of establishing specific project objectives, appraising resource requirements, including people to select and apply appropriate project management concepts, models, tools and techniques.

B9MG119 - Cloud Technologies for Business

The module aims to provide learners with the key concepts of cloud technologies used in the modern business environment. Cloud computing technologies allow businesses to access their information virtually, creating a flexible and global way of accessing your data any place, any time. The module equips learners to evaluate a set of practices that enable enterprises to profit from the use of cloud technologies and effectively manage the challenges associated with their use in an organisation.

B9MG121 - Applied Strategic Management

The module will provide students with the awareness, knowledge, skills, concepts, and tools necessary to critically appraise and respond to the increasingly complex, global, volatile, and dynamic contexts in which organisational strategy formulation and implementation function today. Learners will engage in a detailed evaluative study of the applied nature of strategy content, and of applied strategic processes, in a variety or organisational/industry settings designed to enhance students' business research and problem-solving capabilities.

B9MG125 - Dynamic Leadership Development

This module examines Dynamic Leadership Development within an organisation and within the vigorous and rigorous global business environment. Through this module, learners will develop a deep understanding of core leadership theories as well as practical skills, which develop leadership skills and an awareness of leadership styles within a variety of business contexts. The module equips the

learner with the skills necessary to enable them to manage and lead effectively and ultimately achieve organisational performance goals and objectives through ethical leadership. The module, through a critical lens, analysis how dynamic leaders are an essential function of management specifically ensuring organisational sustainability and growth.

B9MG127 - Reinventing Performance Management

This module analyses traditional as well as the latest developments in performance management including the shift from ratings and annual reviews. It examines where these new approaches should be embraced and where traditional methods of performance management may be preferable. This module examines the concept and impact of Performance Management has on business today, while providing insight into the analysis and assessment of performance. It addresses the management of underperforming employees and it emphasises how to build a culture of ongoing feedback and coaching. It also considers the international landscape and practices of performance management, as well as addressing the reinvention of Performance management for future sustainability.

B9MG130 - Strategic Performance Management

This module seeks to provide learners with the ability to utilise advanced knowledge and skills and exercise judgment in selecting and applying strategic management accounting techniques in different commercial contexts including the international dimension. The module will contribute to the evaluation of the corporate performance at both operational and strategic levels and develop an appreciation of the contemporary issues in management accounting. Enable learners to evaluate the links between management accounting, performance management and corporate strategy. Provide learners with mastery of generally accepted management accounting techniques.

B9MG131 - Project Management Practices

This course is primarily designed to build on Project Management Frameworks and looks to the complexity of the project environment. The course will develop that understanding to a deeper level across a broader spectrum of concepts to develop a level of knowledge and understanding so allowing the student to operate at a senior project level in any contemporary organisation. The module is set in the context of the management function and a business setting and ensures the learner is capable of establishing specific project objectives, appraising resource requirements, including people to select and apply appropriate project management concepts, models, tools and techniques.

B9MG133 - Strategies for Human Resource Management

The aim of this module is to give the learner a critical insight into people resourcing strategies and talent planning within an organisation. The module engenders a strategic approach to human resource management and the contextual and contingent activity of human resourcing strategies is recognised throughout all topics. The module appraises the variables which make it necessary for managers to be aware of the influences of the internal and external environments - context is key to ensure an efficient and effective human resource function within an organisation which maximises potential and which is a key strata upon which an organisation's success and growth is based.

B9MG135 - Global Financial Markets

This is a contemporary module with a dynamic focus on the interplay between economic policy/outcomes and global financial markets. The central focus is to understand the factors which gave rise to the global financial crisis. The module goes on to evaluate the policy responses to the crisis and their effectiveness over the last decade. It then assesses whether the global financial system today is sufficiently robust to avoid another major correction, which in turn involves questioning whether previously accepted doctrines – efficient markets, light touch regulation, free market ideology, "too big to fail" – require modification now.

B9MG137 - Cloud Application Management

Learners will gain a comprehensive insight into the management of cloud-based technologies and applications to serve real organisational needs. They will develop critical skills in analysing and evaluating the use of cloud applications in business and subsequently developing business solution-based applications. Learners will also develop practical and hands on technical skills with relevant cloud services. Learners will also gain insight into how digital project management practices are applied and realised in a cloud environment through the use of cloud-based planning and design applications, cloud-supported cooperative work, groupware and other tools in preparing their continuous assessments.

B9HR105 - Contemporary Issues in Human Resource Management

The Contemporary Issues in Human Resource Management (Seminars Series) provides learners with the opportunity to develop the competencies and insights into the practice of human resource management. Learners will be exposed to industry speakers/experts across core human resource management areas and asked to apply theoretical methods to key HR issues and demonstrate complex functional and strategic problems and solutions across a broad range of areas. This module places specific emphasis on focuses on the key areas of organisational change, project management and recruitment, retention and wellbeing of talent delivered by industry experts using workshops and event simulation. Learners will reflect on the theoretical underpinnings of the methods and the range of applications for which they are useful whilst also gaining practical experience in problem solving by industry workshops and seminars. Particular emphasis is placed on reflective and critical thinking, collaborating, creating and sharing knowledge and dealing with complexity.

B8MK111 - Innovation and Entrepreneurship

This module introduces learners to creative thinking and the basic concepts of entrepreneurship and innovation. It will provide students with an awareness of the intrinsic value of entrepreneurship, innovation and commercialisation activities and their role in business today. Learners will be introduced to technical and transferable skills required for entrepreneurial activity and will explore and develop their business plan in other modules across the course. Practical support will be offered to students who have identified business ideas that they wish to pursue further.

B8MK117 - Strategic Marketing

The module provides learners with the opportunity to reflect and analyse contemporary marketing case studies thus enabling learners to face diverse marketing opportunities and challenges in a dynamic way. The module focuses on building on prior learning from the Marketing module in Semester 1 and incorporates aspects of digital media and marketing with an emphasis is placed on problem solving and strategic decision making within the context of marketing and the overall sustainability and performance of an organisation.

B9MK115 - Marketing Innovations

This module provides learners with an applied knowledge of innovative marketing practices. This module leads to the creation and the presentation a marketing entrepreneurial project. Learners will learn by doing. They will gain a critical appreciation of the technologies used in the field of Marketing as well as an experiential dimensions of marketing products and services. This class will facilitate circular learning where entrepreneurial skills are encouraged. In this way, learners will participate and actively affirm their contributions to a more sustainable global society. The Marketing, as a process will be applied for the purpose of researching, developing, distributing and promoting a sustainable product or service to maximise positive impacts on people, profits and planet.

B9MK128 - Integrated Marketing Communications

This module will provide students with a comprehensive overview of contemporary integrated marketing communication in a digital age. It examines the evolution of the promotional mix to date and the challenges marketers face in a changing business environment. This module, underpinned by principles of marketing and consumer behaviour theory, provides a strategic approach to managing communications that builds upon a critical understanding of the promotional mix in the context of emerging technologies.

B9MK130 - International Marketing

This module is to bring the students through the systematic design of international marketing strategies. Learners will gain insights into international theories, concepts and ideas as they relate to global marketing issues. Learners will be requested to discuss a series of case studies each week in various industries across the globe, as well as write a publishable international marketing case study on an international marketing topic of their choice.

B9MK136 - Design Thinking

The aim of this module is to provide learners with knowledge of and insights into the rapid changes which have prompted today's organisations to ensure their survival by launching innovative products and services with advanced technology and different and new ways of thinking. These approaches require design thinking, entrepreneurship, and commercialisation. The module explores pathways companies can choose to bring new or improved products or new service offerings to market despite many obstacles.

B9MK137 - Applied Strategic Branding

This module is based on a case study learning approach. Learners are required to engage every week with a series of marketing case studies and analyse them in order to make strategic marketing decisions (12 Case Studies over 24 weeks). All case studies will be related to current strategic marketing topics. Learners will be assigned case studies at the very beginning of the term. Following a thorough analysis, learners will present, justify and debate with the class their strategic marketing approach. Finally, learners will be encouraged to write their own case study for the purpose of publication on a given topic or a topic of their choice.

B9DM101 - Digital Design & Development

Digital marketing is a dynamic and technology driven sector with advances in audio, video, graphic design, mobile and content management systems creating new ways of communicating and understanding consumer behaviour. In today's market, the vast majority of commercial websites for organisations are built using content management systems such as WordPress, Joomla, Drupal or Squarespace. This module provides learners with an opportunity to learn how to create digital assets (including graphics & video) and a website using a self-hosted version of WordPress, enabling learners to gain first-hand experience with these technologies through building prototypes and evaluating case studies and digital marketing related plugins.

B9DM104 - Digital Advertising & Online Marketing Communications

This module takes both a practical and theoretical approach to the role of marketing communications and advertising in the digital age and will include planning and implementing a digital advertising campaign and developing a brand online. This module will include insights into the benefits, limitations and functionality of the main digital marketing channels including (but not limited to) AdWords for Search, Display & Video Advertising, DoubleClick Bid Manager for Display & Programmatic Advertising and Facebook Advertising including Power Editor.

B9DM105 - Data and Digital Marketing Analytics

Enterprises now rely on their data assets to make informed and increasingly effective decisions. Data analytics involves processes and activities designed to obtain and extract useful information from available data stores. The age-old marketing phrase that "half your advertising budget is wasted but the question is which half?" no longer applies to many organisations which utilise data analytical tools to both analyse & optimise performance. This module takes both a practical and theoretical approach to data analytics and key performance indicators for digital marketing with particular focus on Google Analytics, Social Media Insights and Digital Advertising metrics.

B9DM109 - Strategic Thinking in the Digital Age

This module has been designed to provide consumer insights and develop an awareness of emerging trends in strategic digital marketing that will be critical for professionals in this industry. Topics may vary but will include the strategic examination of emerging and evolving technologies such as Internet of Things (IoT), Artificial Intelligence (AI) and Robotics in a marketing related context. This will highlight the importance of knowledge and critical awareness in how new technologies are disrupting marketing and the marketplace. In addition, how new technologies are changing consumer decision making, consumption patterns, attitudes and behaviour. Learners will also learn how to make sense of these new technologies and how to deploy them to achieve an organisation's strategic marketing objectives. This will be further supported by a deep exploration of key strategic digital frameworks and theories. Consequently, the module will enable the learner to develop a lifelong learning disposition that emphasises the importance of remaining current, aware and relevant in this fast moving sector.

B9DM111 - Business Intelligence & Visualisation

The module aims to give students practical skills in modelling, storage access and visualization of big data, emphasising the key techniques essential to evolving data analytics solutions. This module concentrates upon the importance of visualisation in the effective communication and interpretation of data analysis in enhanced end-user decision making. Business Intelligence and the data storage solutions which support it are a key enabler of effective visualisations, and this module provides a solid grounding in these techniques.

B9LM107 - Open Librarianship

This module explores developments in relation to both open source, open science and library publishing. In relation to open science, it explores how information professionals can exploit open access to enhance services and resources in a library environment as both producer and consumer. The more technical open source element of the module demonstrates how librarians can identify and deploy these low-cost technical solutions in the library environment.

B9LM110 - Information Architecture

This module is designed to explore the concepts and techniques for managing information in digital environments. Principles of Information Architecture (IA) can be applied to several systems such as digital libraries, content management systems (CMS) and e-commerce websites, etc. This is a technical module and aims to provide an in-depth understanding of IA techniques required to design and develop web sites/portals in organisational contexts. It provides an opportunity to enable learners to create, maintain and apply controlled vocabularies with metadata in a complex range of electronic information management scenarios.

B9LM113 - Management for Information and Library Professionals

Learners will learn about the current environment in which library and information services are operating, and will be introduced to key concepts of management and strategy theory and how they

pertain to a library and information services environment. The module explores the concepts of business planning and strategy, resource management, collection management and procurement, space management, measurement and impact management, stakeholder and customer relations, communication and marketing, human resources and staff development, and technology management. The module also considers the application of information management principles to knowledge management and how organisations create, curate and use knowledge and information.

B9LM114 - Professional Development and Organisational Awareness

This very practical module is designed to help learners develop key insights to enable them access, survive and thrive within organisations. Career achievement starts with access into organisations, so this module also helps learners develop the skills and insights necessary to survive and indeed thrive within organisations. This module will take learners through the essential steps in the career planning process. It will support them as they navigate that journey through helping them develop self-awareness, career research skills and their ability to market themselves effectively to future employers. Learners will learn how to identify and articulate their transferable skills, aptitudes and interests; analyse job competencies and determine possible career paths; understand how to 'market' themselves and manage impressions effectively through their CVs, cover letters, social media presence and selection procedures; understand the importance of leveraging their social network for career purposes and develop realistic and achievable learning and career plans. Learners will also gain insights into the complex dynamics of organisational life – key insights into organisational culture, politics, leadership, communication and conflict - that will support them in achieving their personal and work objectives. This module is linked to work experience which takes place during the programme.

B9DA101 - Statistics for Data Analytics

This module aims to advance learners beyond a solid understanding of the fundamentals of statistical analysis to develop the critical and analytic ability to successfully apply statistical tools and techniques in the domain of data analytics. Learners will begin by reviewing descriptive statistics, inferential statistics, and regression analysis. Learner's will then advance their critical appreciation of the choice of techniques and tools available for analysing data for both data and big data analysis to a level 9 standard.

B9DA106 - Data Visualisation

This module builds on principles and programming techniques covered in the programming for data analytics module and provides the students with the knowledge and skills required to not only analyse the data but also to present it in a suitable format. It ensures that students can present data in a format that is insightful and understandable to the observer. Data visualisation techniques and strategies will be investigated to allow students to communicate information that they derive from their analysis. Students will critically assess the tools available, evaluate the different types of data, information requirements so as to provide an engaging visualisation of the data available.

B9DA110 - Advanced Data and Network Mining

Data mining is defined as "Hybrid of artificial intelligence, statistics, database research, and machine learning. The actual process entails the automatic or semi-automatic analysis of large data sets to extract previously unknown yet interesting patterns anomalies, or dependencies that could be exploited." In a rapidly evolving field, there has recently been a resurgence of interest in graph networks to support relational reasoning and combinatorial generalization, laying the foundation for more sophisticated, interpretable, and flexible patterns of reasoning enhancing current approaches to Data Mining and Data Science. By enhancing data with related context, graph technology offers an effective means to empower the development of sophisticated AI applications. Applications,

methodology and use cases in data mining, text mining and recommender systems are introduced and explored.

B9DA111 - Data Storage Solutions for Data Analytics
This module aims to advance learners beyond a solid understanding of the fundamentals of databases and data storage to develop the critical and analytic ability to apply data storage solutions in the domain of data analytics. Learners will begin by reviewing relational database design, development and interrogation with SQL. Learner's will then advance to the data warehousing and big data solutions and develop their critical appreciation of the choice of solutions available for storing data for both data and big data analysis to a level 9 standard.

B9BA100 - Programming for Analytics
This module aims to provide a solid grounding in programming, using standard data structures performing complex data analysis, sourcing data from the internet, scraping, parsing, and reading web data as well as using web APIs. It will equip students to program multi-step data gathering, analysis, and processing workflows, which are the basis of complex automated analytical pipelines.

B9BA101 - Requirements Analysis
This module aims to give learners a comprehensive awareness and understanding of the software development lifecycle, an appreciation for the importance of good requirements gathering, analysis and specification, and the skills to design, develop and build quality software. It addresses core concepts in requirements analysis and software engineering. Issues in comprehension and communication of requirements are responsible for the failure of several high-profile information system projects, so software and analytical professionals who have a solid understanding of both technical and business requirements are ideally placed to liaise between senior management and developers, or to manage development teams.

B9BA102 - Applied Statistics and Machine Learning
This module will advance learners' understanding of the fundamentals of big data and the practical experience of extracting value from big data. It builds from statistical models, goodness-of-fit and hypothesis testing through machine learning including train-validate-test, prediction scores and confusion matrices, optimisation via hyper-parameter tuning. A wide variety of statistical models, tests and machine learning techniques are covered, supported by underlying concepts and theories, with emphasis placed on the common principles shared across a range of examples.

B9BA103 - Data Mining
This module aims to achieve a solid grounding in Data Mining techniques to a level 9 standard. The topics covered include data mining and predictive analysis. Learners will develop an in-depth understanding of data mining techniques. They will also examine the techniques involved in the Web Mining such as Web search, Web personalisation and recommendations, Web community domain analysis, fundamental principles, algorithms and research in these areas. Learners will develop skills to create Web data models and to build systems for Web search, personalisation and recommendations.

B9BA104 - Business Intelligence and Visualisation
The module aims to give students practical skills in modelling, storage access and visualization of big data, emphasising the key techniques essential to evolving data analytics solutions. This module concentrates upon the importance of visualisation in the effective communication and interpretation of data analysis in enhanced end-user decision making. Business Intelligence and the data storage

solutions which support it are a key enabler of effective visualisations, and this module provides a solid grounding in these techniques.

B9BA105 - Project Management for Business Analytics

Strategic changes to businesses, whether based on analytical output or other- wise, will have to have their rollout throughout the organisation project managed. Project management is also in itself a domain which is highly amenable to improvement using decision support based on appropriate analysis. This course examines concepts of decision support in both automated and non-automated environments. Decision theory, analytical models, and simulations are used to solve organisational problems. A particular focus is their application to project management, including specifically risk management. Project management concepts, theories and techniques are the other focus of the module, along with organisational change management and anticipation.

B9BA106 - Financial and Business Analytics

This module will provide comprehensive understanding of the advanced quantitative methodologies and analytical techniques commonly employed in the analysis of financial data. Through practical classes and case studies, students will apply these techniques utilising tool sets for implementing financial data analytic activities. The module also focuses on current research in the field and enables learners to review and critically assess this research. Learners will develop the ability to identify and define quantitates problems, select appropriate financial and quantitative tools and models, and apply these techniques within complex financial signs.

B9BA114 - Introductory Programming, Databases and Statistics

This module aims to provide a basis for learners to develop their technical and analysis skills in later modules.

B9IS100 - Advanced Databases

This module synthesises the principles and practices involved in the management, retrieval, organisation, indexing and storage of large quantities of data. It provides an in-depth understanding of a wide variety of database systems, concepts and state of the art skills in database applications. Learners will learn the concepts of web scale data, how to implement technical solutions and the challenges and benefits associated with web scale data storage.

B9IS103 - Computer Systems Security

Modern computing environments are particularly susceptible to the adverse threats of computer security issues such as malware, viruses and eavesdropping. This module will attempt to address the issues by providing detailed understanding of the threats to and vulnerabilities of modern computer systems and networks. It will provide practical exposure to overall computer systems security by 1) securing systems, 2) securing networks and 3) securing software through the use of security policies, securing network hardware and encryption. Knowledge of the technologies and software applications that support the secure deployment and maintenance of computer networks will enable increased protection for an organisation aiming to deliver a secure computer system.

B9IS105 - Enterprise Information Systems

This module will develop the learners' knowledge in Enterprise Information Systems both from an architecture/technology perspective and from an organisational perspective. The architecture of an information system encompasses the hardware and software used to deliver the solution to the final consumer of services. It will examine architectures such as distributed systems, clusters, grids and cloud computing. The module will provide a key understanding of business processes and models and how changes to them require the correct support by information systems and their underlying IT infrastructure.

B9IS107 - Data Analytics and Visualisation

This module builds on principles discovered in Advanced Databases, particularly web era 'Big Data' type nonrelation data stores. It provides an in-depth understanding of data intensive computing, data mining and data warehousing. Learners will master advanced concepts of data extraction, transformation and harness the power of 'Big Data' by utilising data analytics and data mining techniques to generate visualisation models/business intelligence from large amounts of data.

B9IS109 - Web Development for Information Systems

This module builds on the techniques learnt in the Web and Mobile Technologies module in semester I. It allows learners to extend their competencies in the area of web development by learning tools and techniques including several frameworks for web applications. Learners will enhance their skills for frontend development and for backend support. They will also acquire skills and knowledge in relation to the implementation and use of web services.

B9IS111 - Information Systems and Project Management

This module aims to give the students a strong practical and theoretical underpinning in the field of Information Systems and Project Management. It is specifically designed to help students to further develop their understanding of project management and the many potential complex IS/IT management issues facing them in the contemporary organisation. Develop in learners the ability to critically appraise current IS/IT issues as they relate to the strategic management of an organisation.

B9IS119 - Software Engineering

This module provides an in-depth understanding and practice in the field of Software Engineering. Learners will study principles and techniques for requirements, design, development, testing and maintenance of software systems. They will use relevant Computer Aided Software Engineering (CASE) tools to enhance their knowledge. They will also apply software project management and agile principles and techniques associated with professional software development environments.

B9IS121 - Networks and Systems Administration

This module will enable learners to be proficient in essential networking skills such as TCP/IP stack and configuration of a network, etc. It will also examine in detail the principles of system administration, tools and techniques. It will focus specifically on common system and network administration tasks such as user and group management, performing backups, monitoring system performance and the boot process. Server and network technologies such as DNS, file sharing, LDAP or Kerberos authentication will be examined. The module will generate skills based on the practical application of knowledge, through hands on assignments which will develop real world skills.

B9IS123 - Programming for Information Systems

This module will equip learners with the necessary programming skills required for the design, development and testing of information systems. They will learn to write effective algorithms and implement them by using suitable data structures. They will also develop abilities to incorporate object-oriented concepts for modular programming, use of design patterns, parsing web data, development of UI and use of software libraries.

B9AI100 - Cognitive & Ethical Dimensions of AI

This module synthesises the principles and practices involved in the logic of human decision making. The module provides a brief, selective survey of some mathematical topics used in computational neuroscience and cognitive modelling for decision making which is a first step towards mimicking human brain behaviour. Computational methods in psychology with mathematical modelling of neural

networks and perceptions will be presented. Learners will learn how decisions resulted from psychological and physical effects can be interpreted in machine language. The module will explore prominent ethical issues arising in relation to the design, use and societal impact of Artificial Intelligence. In addition, students will examine the concept of ethics applied to AI, including the considerations of Ethical design and regulation, including the impact AI on Ethics.

B9AI101 - Graph and AI

With roots in graph theory going back centuries, there has recently been a resurgence of interest in the modern field of network science. Graph networks support relational reasoning and combinatorial generalisation, laying the foundation for more sophisticated, interpretable, and flexible patterns of reasoning enhancing current deep learning approaches to AI. By enhancing AI with related context, graph technology offers an effective means to empower the development of sophisticated AI applications. This module introduces the student to the graph technology and algorithms underpinning modern approaches.

B9AI103 - Recommender Systems

This module synthesises the principles and practices involved in the fundamental concepts of Recommender Systems and offers practical insights into how this learning paradigm supports automatic mechanisms of structural knowledge representation. It shows how structural developments have become essential to the successful delivery of competitive practical solutions to real-world problems. It also demonstrates how the architectural developments, which arise in the setting of Recommender Systems, support detailed learning and refinements to the system design. The module offers practical guidelines and presents competitive solutions to various techniques including collaborative filtering methods, content-based methods, knowledge-based methods, ensemble-based methods, and evaluation.

B9AI104 - Deep Learning

This module synthesises the principles and practices involved in the fundamental concepts of deep learning and offers practical insights into how this learning paradigm supports automatic mechanisms of structural knowledge representation. It also demonstrates how the architectural developments, which arise in the setting of deep learning, support detailed learning and refinements to the system design. Featuring detailed descriptions of the current trends in the design and analysis of deep learning topologies, the module offers practical guidelines and presents competitive solutions to various areas of language modelling, graph representation, and forecasting.

B9AI105 - Reinforcement Learning

This module synthesises the principles and practices involved in the fundamental concepts of Reinforcement Learning (RL) with focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. This module prepares learners with RL techniques and offers practical insights into how this learning paradigm supports automatic mechanisms of structural knowledge representation. It discusses a number of multilayer architectures giving rise to tangible and functionally meaningful pieces of knowledge, and shows how the structural developments have become essential to the successful delivery of competitive practical solutions to real-world problems.

B9AI108 - Programming for Data Analysis

This module will show the learner how to use built-in data structures such as lists, dictionaries, and tuples to perform increasingly complex data analysis and use the internet as a source of data to scrape, parse, and read web data as well as access data using web APIs. The module will also explore how to store data as part of a multi-step data gathering, analysis, and processing and visualisation effort.

B9AI109 - Natural Language Processing

This module builds on principles and techniques covered in the Machine Learning and Pattern Recognition module and provides the learners with knowledge and skills of natural language processing, including foundations in linguistics, statistical analysis and applications. Natural Language Processing (NLP) is a specialist field of Artificial Intelligence that aims to read, understand and derive meaning from human languages. The discipline focuses on the interaction between data science and human language, techniques and strategies and will allow learners to communicate information that they derive from their analysis. Learners will critically assess the tools available, evaluate the different types of data, information requirements so as to provide an engaging analysis of the data available.

B9CY100 - Advanced Programming Techniques

This module will equip learners with the necessary programming skills required for the design, development and testing of information systems. They will learn to write effective algorithms and implement them by using suitable data structures. They will also develop abilities to incorporate object- oriented concepts for modular programming, use of design patterns, parsing web data, development of UI and use of software libraries.

B9CY102 - Cryptography & Digital Forensics

This module will equip learners with the necessary skills required for the effective securing of data communications and the execution of a legally sound data forensic investigation. The module focuses on the protection of data through the application of mathematical and analytical algorithms.

B9CY103 - Communications and Networking Security

This module will equip learners with the necessary practical skills required for the detection and analysis of anomalous computer network traffic with a view towards intrusion detection, intrusion prevention and cyber operational security. Evaluation of open source network analysis tools. Planning design and configuration of virtual networking environments leading to information gathering and analysis. Learning and achieving proficiency with IDS open source software SNORT, Enterprise Level Information Management System, SPLUNK and associated rules.

B9CY104 - Cybersecurity for Software Development

This module covers the weakness of web and system applications to attack from the Internet and other malicious sources. It covers best practice Software Development safety policies and procedures as well as the methodology, measuring and testing of system vulnerabilities.

B9CY105 - Penetration Testing and Business Continuity Management

To prepare learners to conduct successful penetration testing and ethical hacking projects. The aim of the module is to give learners the skills of proper planning, scoping and reconnaissance, scanning, target exploitation, password attacks, and wireless and web applications with detailed hands-on exercises and practical tips for doing the job safely and effectively. On completion of the course, learners should have acquired the skills and understanding to be able to participate in Business Continuity Management / BCM programs and BC projects for an organisation.

B9CY106 - Organisational and Societal Cybersecurity

The aim of this module is to provide learners with an in-depth knowledge of cyber security legislation and governance including security frameworks and cyber policies and procedures. Moreover, the learner will gain an insight into the ethical considerations of cyber security as it relates to the protection of data, systems and corporate networks. This module focuses on protecting individual's data and privacy in the context of organisations (i.e., as employees) and the reflection of data policies in the safeguarding of their personal information. This will further develop understanding for

protecting organisations from cybersecurity threats and managing risk as modern organisations have responsibility to protect information and identify the extent of this corporate responsibility.

B9AC100 - Advanced International Financial Reporting
This module encompasses the application of the international accounting standards to business combinations at an advanced level. This module will further develop learners' skills in assessing and critiquing an enterprise's published consolidated financial statements. Enable learners to prepare financial statements for business combinations. Give learners the ability to apply the principles of group accounting to complex areas such as foreign subsidiary consolidation. Appraise the different accounting treatments for purchase and disposals of subsidiaries, under the international GAAP. Equip learners with the competence to appraise corporate performance using ratio analysis and related techniques.

B9AC103 - Corporate Financial Management
This module provides an understanding of the more advanced investment appraisal techniques and issues. The module specifically addresses role of the corporate finance manager in analysing financial information to facilitate corporate decision making. The module will provide learners with an understanding of risk assessment, and the risk management techniques employed too effectively hedge corporate risk exposures.

B8AF121 - Business Finance
The module incorporates the areas of financial accounting and business finance necessary for a business graduate in a management position. The module provides knowledge and understanding of the principles and concepts that underpin financial accounting within the context of business finance. The module will provide knowledge and understanding of the key financial opportunities and challenges faced by managers and enable the implementation of contemporary management solutions for the individual, groups and the organisation.

B9AF004 - Advanced Financial Management
This module is designed to provide learners with a thorough financial decision making platform. The module fosters an understanding of the utility of historical financial information and the inherent uncertainties involved in forecasting future earnings &/or cash-flows. Learners will focus upon the financing decisions – specifically on the optimisation of the entity's cost of capital, investing appraisal techniques – specifically on advanced valuation techniques, and the management of systematic risk factors. The module is designed to apply foundational concepts to contemporary decision-making scenarios.

B9AF005 – Treasury and Risk Management
This module provides a detailed understanding of the design, implementation and limitations of current risk management practices within the overall Treasury function. The learner will acquire an in-depth understanding of the risk management concepts, tools and techniques available to facilitate this activity - utilising both self-managed and risk transfer approaches. The modules specifically focus upon the 49 traditional weakness of credit and market-based risk modelling, the evolving regulatory landscape, and the impact of technology – specifically the utilization of data analytics and the emergence of machine learning/artificial intelligence.

B9FA100 - Principles of Financial Decision Making
This module is designed to provide learners with a thorough strategic financial decision making framework. The module fosters an understanding of the utility of financial information and the inherent uncertainties involved in forecasting future earnings and/or cash-flows. Learners will focus

upon the financing decisions – specifically on cash flow forecasting, investing appraisal and advanced valuation techniques. The module is designed to apply foundational concepts to contemporary decision-making scenarios.

B9FA101 - Data Analytics & Machine Learning for Finance

This module will provide learners with an introduction to the fundamentals of big data and the practical
experience of extracting value from big data. The module will specifically focus on the modelling, storage and access of big data, and emphasize the key techniques essential to evolving data analytics solutions. The module will also concentrate upon the importance of visualization in the effective communication and interpretation of data analysis in enhanced end-user decision making.

B9FA102 - Predictive Financial Modelling

This module will provide comprehensive understanding of the advanced quantitative methodologies and analytical techniques commonly employed in the analysis of financial data. Through practical classes and case studies, students will apply these techniques utilising toolsets for implementing financial data analytics activities. The module also focuses on current research in the field and enables learners to review and critically assess this research. Learners will develop the ability to identify and define quantitative problems, select appropriate financial and quantitative tools and models, and apply these techniques within complex financial decision-making settings.

B9FA103 - Applied Financial Analytics

This module teaches learners how to translate quantitative finance theory into executable computer code to enable them to programmatically design, implement and test their understanding of financial data and markets. This understanding shall be rooted in data acquisition, transformation, interrogation and presentation. The implementation of these initial key steps in a financial data analysis programmatically will allow the learners to design, apply and test multiple hypothesis. Additionally, the learners shall understand the computational complexity of the models they design and also the potential of cloud based parallel frameworks to allow their models to be deployed at scale and in a performant manner. The module assumes no prior knowledge of programming.

B9FA104 - Financial Intelligence & Data Visualisation

This module aims to give students practical skills in modelling, storage access and the visualisation of big data, emphasising key techniques essential to the evolving data analytical solution in a financial decision-making context. The module concentrates upon the importance of visualisation in the communication and interpretation of data analysis in advanced financial decision making. The module also focuses upon the business intelligence and data storage solutions that are key enablers of effective data visualisation solutions.

B9FA105 - Information & Cybersecurity Management

This module will introduce learners to the key concepts in managing cyber security in a Fintech organisation. The module will enable learners to understand the importance of a management framework in constructing and operating a cybersecurity management system. The module will be delivered based on the real-life examples to illustrate key concepts involved in defining organisational objectives for cyber security including business goals, contractual obligations and also legal and compliance issues. The main objective of the module is to provide learners with an understanding of the technologies used in information and cyber security management to effectively implement an information security system. The module will enable learners to select and critically assess various components of the security system's architecture, and review various controls in the context of the organization's risk mitigation requirements.

B9FA106 - Financial Risk Management

This module provides a detailed understanding of the design, implementation and limitations of current risk management practices within the overall Treasury function. The learner will acquire an in-depth understanding of the risk management concepts, tools and techniques available to facilitate this activity - utilising both self-managed and risk transfer approaches. The modules specifically focus upon the traditional weakness of credit and market-based risk modelling, the evolving regulatory landscape, and the impact of technology, specifically the utilisation of data analytics and the emergence of machine learning/artificial intelligence.

B9FA107 - Behavioural Economics & Finance

This module introduces learners to the influence of individual emotions and other psychological factors that influence financial decision-making. The module examines the various behavioural frames, biases and heuristics that effect markets, individual investors and a wide cross section of financial decision-making. Learners will develop a framework to appreciate the evolving importance of incentives and behaviour in an increasingly date driven financial decision-making environment.

B9FA108 - Innovation in Financial Technology

This module contextualises the evolution and application of technology in the context of the contemporary and the future financial function. The module will focus upon specific technologies, and key drivers of innovation in the finance function, for example: predictive and prescriptive analysis, automation, distributed ledger technologies, and others. Through a series cases studies, guest speakers and workshops the module will examine the innovation of products and processes, and the adoption of agile operating models. To optimise the learning outcomes of this module, and the programme, the assessment of this module is "work based".
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B9FT110 - The Evolution of FinTech

This module will provide learners with an understanding of the operation and structure of financial markets and role of traditional financial services providers. The model analyses how Fintech innovation is impacting and disintermediating the financial services industry. The module specifically explores the disruptive impact of Fintech as an alternative provider of payments/transfers, borrowing/lending and investing/funding. This module also provides learners the fundamentals of valuation techniques and risk modelling, and maps the evolution of these models and other Fintech applications.

B9FT101 - Quantitative Financial Modelling

This module will provide comprehensive understanding of the advanced quantitative methodologies and analytical techniques commonly employed in the analysis of financial data. Through practical classes and case studies, students will apply these techniques utilising toolsets for implementing financial data analytics activities. The module also focuses on current research in the field and enables learners to review and critically assess this research. Learners will develop the ability to identify and define quantitative problems, select appropriate financial and quantitative tools and models, and apply these techniques within complex financial settings specifically within the Fintech environment.

B9FT102 - Information and Cybersecurity Management

This module will introduce learners to the key concepts in managing cyber security in an organisation. The module will enable learners to understand the importance of a management framework in constructing and operating a cybersecurity management system. The module will be delivered based on the real-life examples to illustrate key concepts involved in defining organisational objectives for cyber security including business goals, contractual obligations and also legal and compliance issues.

The main objective of the module is to provide learners with an understanding of the technologies used in information and cyber security management to effectively implement an information security system. The module will enable learners to select and critically assess various components of the security system's architecture, and review various controls in the context of the organisation's risk mitigation requirements.

B9FT104 - Fintech Regulation
The regulatory landscape that financial services operate in, are an ever changing and expanding set of laws and rules that are intended to promote financial stability and compliance with certain procedures and practices. Adding technology, data, and automation to financial services has invited additional complexities in the area of data protection to an already complex regulatory environment.

Emerging areas of potential regulation and compliance such as ESG (Environmental, Social, and Governance) are also considered. These factors are being increasingly considered by investors and consumers alike. Financial regulation is an active public policy area driven by both the national government and the European Union. This module builds an understanding of the regulatory framework of financial services and information governance which will be essential skills for any graduate that wishes to operate in the financial services and FinTech.

B9FT105 - Data Analytics and Machine Learning
This module will provide learners with an introduction to the fundamentals of big data and the practical experience of extracting value from big data. The module will specifically focus on the modelling, storage and access of big data, and emphasize the key techniques essential to evolving data analytics solutions. The module will also concentrate upon the importance of visualization in the effective communication and interpretation of data analysis in enhanced end-user decision making.

B9FT106 - Applied Financial Analysis
This module teaches learners how to transpose quantitative and computational finance models into executable computer code. This will enable learners to programmatically design, implement and test their understanding of financial data and markets. This learning will be rooted in the Data Science theory covering areas such as data acquisition, transformation, interrogation, and presentation. This will enable the learners to design, apply and test multiple hypothesis. Learners will understand the computational complexity of the models they design and examine the potential of cloud based parallel frameworks to allow their models to be deployed at scale and in a performant manner. The module assumes no prior knowledge of programming.

B9FT113 - Distributed Ledger and Asset Tokenisation
The module will provide learners with the fundamentals of distributed ledger technologies (including cryptocurrencies) and the developing area of asset tokenisation. This module will introduce the properties of distributed ledger networks and explore their actual and potential effects upon financial markets, financial services, and other related domains. Learners will also be equipped with the core foundational knowledge to differentiate between types of distributed ledgers for example: Public versus Private Blockchain, review potential distributed ledger applications, and write a smart contract. Learners will also explore the use of distributed ledgers to tokenize assets, including the difference between fungible and non-fungible tokens. Learners will also be provided with an appreciation of the regulatory and policy challenges facing the adoption of distributed ledger technologies.

B9SM001 - Global Supply Chain and Logistics Management
The Global Supply Chain and Logistics Management module is the first module learners will encounter on this programme. This module expands on topics, such as sustainability, that are explored in more depth later in the programme. Logistics management is an essential element of the supply chain

function as it involves planning and implementing the movement of goods (or materials, or finance or information). Learners will be taught common logistics activities including planning, procurement, transport, storage and production control. Within these common activities learners will be taught to consider things such as sustainability, collaboration and industry 4.0, ethics and governance. There are multiple approaches to managing logistics. Understanding and comparing the strengths and limitations of various approaches to help learners critically identify the optimum logistics approach for a given situation is the main goal of this module. A range of situations are considered in this module, from domestic to globalised supply chain designs.

B9SM002 - Supply Chain Procurement Strategies

This module will offer learners the opportunity to gain a mastery in procurement strategy, while also providing them with an understanding of how to manage their relationships with suppliers in regard to procurement. This is a 5 credits module so the scope to teach both of these interrelated topics in depth is available from a delivery prospective. In terms of procurement students will be taught how to consider a procurement strategy from the perspective of current thinking and best practice. This is a complex topic and will include discussion on purchasing research and ethics, buying from overseas, managing prices, specifying and managing product quality, purchasing procedures and supporting tools, and purchasing structure and design. In terms of supplier relationships students will be taught how to plan relationship purchasing, models of supplier relationships, the benefits of long-term relationships and the termination of supplier relationships.

B9SM003 - Global Finance for Supply Chain Management

This is a contemporary module with a dynamic focus on the interplay between economic policy/outcomes and global financial markets. Several key themes dominate global financial markets policy in this current regime including increased de-globalisation, rising nationalism, global inequality and a transition towards onshoring global supply chains. Each of these has major implications for - financial markets in general and policy responses specifically. The transition from a "Just-in-Time" to a "Just-in-Case" trade model and the fall-out from ESG policy actions is also significant. The module places important significance also on practitioners' ability to forecast key economics variable including inflation, growth and interest rates. The central focus is to understand the factors which gave rise to the global financial crisis. The module goes on to evaluate the policy responses to the crisis and their effectiveness over the last decade. It then assesses whether the global financial system today is sufficiently robust to avoid another major correction, which in turn involves questioning whether previously accepted doctrines efficient markets, light touch regulation, free market ideology, "too big to fail" - require modification now. Finally, the module considers contemporary developments such as Fintech, and Behavioural Finance.

B9SM004 - Supply Chain Operations

This module aims to help learners gain a comprehensive understanding of operations management. Operations management is a very important supply chain management function as it can add significant value to an organisation. Students are taught to apply theory to practical situations and to approach operations management with multiple considerations in order to be able to identify the optimum operational procedure for a given organisation. To achieve this, the module covers the following topics: introduction to supply chain operations, demand management, material management; capacity management; inventory management and distribution management.

Credits Per module

Module Code	Module Name	ECTS
School of Arts		
A9AS101	Dialogical Meanings in Addiction: Theory, Practice and Policy	5
A9AS102	A Psychoanalytic Perspective on Addiction	5
A9AS106	Women and Addiction	5
A9PS111	Motivation	5
A9PS120	The Psychological Practitioner and the Therapeutic Relationship	5
School of Business & Law		
B8BU110	Business Strategy (Capstone)	10
B8MN113	Human Capital Management	5
B9MG007	Global Issues for Management	10
B9MG008	Strategic Marketing Analysis	10
B9MG009	Managerial Financial Analysis	10
B9MG100	Business Strategy	10
B9MG115	Innovation and Disruptive Technologies	10
B9MG117	Project Management Frameworks	10
B9MG119	Cloud Technologies for Business	10
B9MG121	Applied Strategic Management	10
B9MG125	Dynamic Leadership Development	5
B9MG127	Reinventing Performance Management	10
B9MG130	Strategic Performance Management	5
B9MG131	Project Management Practices	10
B9MG133	Strategies for Human Resource Management	10
B9MG135	Global Financial Markets	10
B9MG137	Cloud Application Management	5
B9HR105	Contemporary Issues in HRM	5
B8MK111	Innovation and Entrepreneurship	5
B8MK117	Strategic Marketing	5
B9MK115	Marketing Innovations	10
B9MK128	Integrated Marketing Communications	10
B9MK130	International Marketing	5
B9MK136	Design Thinking	5

B9MK137	Applied Strategic Branding	10
B9DM101	Digital Design & Development	10
B9DM104	Digital Advertising & Online Marketing Communications	10
B9DM105	Data and Digital Marketing Analytics	10
B9DM109	Strategic Thinking in the Digital Age	10
B9DM111	Business Intelligence & Visualisation	5
B9LM107	Open Librarianship	10
B9LM110	Information Architecture	5
B9LM113	Management for Information and Library Professionals	5
B9LM114	Professional Development and Organisational Awareness	5
B9DA101	Statistics for Data Analytics	10
B9DA106	Data Visualisation	10
B9DA110	Advanced Data and Network Mining	10
B9DA111	Data Storage Solutions for Data Analytics	10
B9BA100	Programming for Analytics	10
B9BA101	Requirements Analysis	10
B9BA102	Applied Statistics and Machine Learning	10
B9BA103	Data Mining	10
B9BA104	Business Intelligence and Visualisation	5
B9BA105	Project Management for Business Analytics	5
B9BA106	Financial and Business Analytics	10
B9BA114	Introductory Programming	5
B9IS100	Advanced Databases	5
B9IS103	Computer Systems Security	10
B9IS105	Enterprise Information Systems	5
B9IS107	Data Analytics and Visualisation	10
B9IS109	Web Development for Information Systems	5
B9IS111	Information Systems and Project Management	10
B9IS119	Software Engineering	5
B9IS121	Networks and Systems Administration	5
B9IS123	Programming for Information Systems	10
B9AI100	Cognitive & Ethical Dimensions of AI	5
B9AI101	Graph and AI	5
B9AI103	Recommender Systems	10
B9AI104	Deep Learning	10

B9AI105	Reinforcement Learning	5
B9AI108	Programming for Data Analysis	10
B9AI109	Natural Language Processing	5
B9CY100	Advanced Programming Techniques	10
B9CY102	Cryptography & Digital Forensics	10
B9CY103	Communications and Networking Security	10
B9CY104	Cybersecurity for Software Development	5
B9CY105	Penetration Testing and Business Continuity Management	5
B9CY106	Organisational and Societal Cybersecurity	10
B9AC100	Advanced International Financial Reporting	5
B9AC103	Corporate Financial Management	10
B8AF121	Business Finance	5
B9AF004	Advanced Financial Management	10
B9AF005	Treasury Risk Management	10
B9FA100	Principles of Financial Decision Making	10
B9FA101	Data Analytics & Machine Learning for Finance	10
B9FA102	Predictive Financial Modelling	10
B9FA103	Applied Financial Analytics	10
B9FA104	Financial Intelligence & Data Visualisation	10
B9FA105	Information & Cybersecurity Management	5
B9FA106	Financial Risk Management	10
B9FA107	Behavioural Economics & Finance	5
B9FA108	Innovation in Financial Technology	10
B9FT100	Fintech: Markets and Services	10
B9FT101	Quantitative Financial Modelling	10
B9FT102	Information and Cybersecurity Management	10
B9FT103	Blockchain and Distributed Ledger Technologies	5
B9FT105	Data Analytics and Machine Learning	5
B9FT106	Applied Financial Analysis	5
B9FT113	Distributed Ledger and Asset Tokenisation	5