



## ***Revised Study Plan and Course Descriptions of the Master of Science in Financial Technology (MSFT) programme***

***Ref: UC/ P 762/2025***

***As approved by University Council Decision No. UC/2646/09/2024-25 of meeting No. UC/09/2024-25 held on Wednesday the 7<sup>th</sup> of May 2025.***

The study plan is to be effective starting from the 2025/2026 student cohort.

**Ahlia University**  
**COLLEGE OF BUSINESS & FINANCE**  
**MASTER OF SCIENCE IN FINANCIAL TECHNOLOGY**  
**MSFT 25-26**

**MSFT 25-26 - Foundation \* (6 CREDITS)**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ACCT	510	Financial Accounting	3	0	3	
FINC	510	Managerial Finance	3	0	3	
					<b>6</b>	

\*Not counted towards the 36 credits necessary for the MSC Fintech degree

**MSFT 25-26 - FIRST YEAR (18 CREDITS)**

**First Semester**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
FINT	520	Global Development in Fintech	3	0	3	
FINT	512	Corporate Finance	3	0	3	
FINT	521	Banking Regulatory Policy and Ethics	3	0	3	
					<b>9</b>	

**Second Semester**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
FINT	514	Portfolio Theory & Investment Analysis	3	0	3	
PGRB	558	Research Methodology and Ethics	2	2	3	
MSSM	517	Business Data Analytics and Sustainability	2	2	3	
					<b>9</b>	

**MSFT 25-26 - SECOND YEAR (18 CREDITS)**

**First Semester**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
FINT	XXX	Major Elective	X	X	3	
FINT	XXX	Major Elective	X	X	3	
					<b>6</b>	

**Second Semester**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
FINT	599	Dissertation in FinTech	0	6	12	PGRB 558 AND Completion of at least 21 credits
					<b>12</b>	

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**LIST OF MAJOR ELECTIVE COURSES**

<b>Course</b>	<b>Code</b>	<b>Course Title</b>	<b>Lec</b>	<b>Lab</b>	<b>Cr</b>	<b>Prerequisite</b>
FINT	513	Blockchain and Cryptocurrencies Technologies	2	2	3	
FINT	518	Entrepreneurship in FinTech	3	0	3	
FINT	522	Machine Learning & Artificial Intelligence in Business	2	2	3	
MSFA	507	Risk Management	3	0	3	
MSSM	512	Strategic and Innovation Management	3	0	3	

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**MSFT 25-26 - Foundation \* (6 CREDITS)**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
ACCT	510	Financial Accounting	3	0	3	
A general overview of the basic concepts and principles of financial accounting, and the procedures and processes of preparing financial statements for both service and merchandising concerns. And detailed view of the Generally Accepted Accounting Principles (GAAPs), Accounting for various elements of financial statements and disclosure requirements.						
FINC	510	Managerial Finance	3	0	3	
This course explores basic concepts of finance and provides students perspective on how fin values. Students are introduced to core concepts in finance such as the time value of money and cost of capital.						
					<b>6</b>	

\*Not counted towards the 36 credits necessary for the MSC Fintech degree

**MSFT 25-26 - FIRST YEAR (18 CREDITS)**

**First Semester**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
FINT	520	Global Development in Fintech	3	0	3	
The course will provide critical knowledge and understanding of global development in financial technology theory and applications. The course starts by a new taxonomy of innovations that had affected the financial industry. It will then examine how bitcoin, and hence all blockchain and smart contract applications work, which together with big data techniques are used in FinTech. By the end of these course will provide a critical understanding for how, why, and when banks, financial institutions and other firms can benefit from using global development in various technologies as a way of making payments more efficient, improving user experience, tokenizing assets, and setting up secure smart contracts.						
FINT	512	Corporate Finance	3	0	3	
This course combines principles of management of the firm, operations of money and capital markets, discounted cash flows, risk and asset valuation with modern capital structure theories, leasing, working capital policies and mergers and acquisitions.						
FINT	521	Banking Regulatory Policy and Ethics	3	0	3	
This course aims to provide learners with critical knowledge and skills related to Banking Regulatory Policy and Ethics. The learner will be provided with critical understanding related to banking ethical principles in general or in application of specialized knowledge, results of research, creative expression, or design processes. Learners will also demonstrate professional level of skills and ability to recognize, articulate, and apply banking ethical principles in various academic, professional, social, or personal contexts. In addition, through ample case studies, the course attempts to inculcate into students' key ethical principles, standards and ways in which business practitioners address moral problems that commonly arise in the business world. The course provides ample opportunity for students to hone skills in critical thinking and banking ethical reasoning as essential components of a manager's decision-making process. The course also highlights the cost to business of unethical behavior and provides a comprehensive overview of corporate social responsibility.						
					<b>9</b>	

**Second Semester**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
FINT	514	Portfolio Theory & Investment Analysis	3	0	3	
This course provides you with a critical understanding of techniques used for investments and portfolio management. It covers both the theoretical and the practical applications of investments. Within this context, the course covers topics related to investment environment, capital allocation, portfolio and diversification theory, portfolio selection and optimization, asset pricing models, efficient markets, fixed income, equity markets, and performance evaluation. The course emphasizes case studies and real case scenarios. Students will master theoretical and practical investment topics.						
PGRB	558	Research Methodology and Ethics	2	2	3	
This course provides the learner with an overview of the research methodology including concepts of quantitative and qualitative research methods. The course will also provide ethical standards to be applied while conducting different types of research methods. The course will cover some practical software applications to support data analysis. At the end of this course the learner will be able to select research methods for different type of research outcomes with assurance of application of ethical standards.						

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MSSM	517	Business Data Analytics and Sustainability	2	2	3	
This course will provide the learners with dimensions of responsible businesses using business data analytics. The learner will be familiarized with sustainable business models that leads to cooperate responsibility to stakeholders and reporting. The learner will be able to use different data analytics tools to support decision making for sustainable businesses. At the end of this course the learner will be able to provide judgment on businesses sustainable performance and suggest recommendations by using business data analytics followed by ethical frameworks.						
					<b>9</b>	

**MSFT 25-26 - SECOND YEAR (18 CREDITS)**

**First Semester**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
FINT	XXX	Major Elective	X	X	3	
FINT	XXX	Major Elective	X	X	3	
					<b>6</b>	

**Second Semester**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
FINT	599	Dissertation in FinTech	0	6	12	PGRB 558 AND Completion of at least 21 credits
A structured supervised in-depth study on a pre-approved topic in the field of FinTech involving one of three methodologies: (1) a literature-focused study which aims to critically discuss the literature within a specified topic area; (2) a research focused study which aims to draw on practical data to assess critically a specified area or topic; or (3) a practical development study which aims to explore an area or ideas, or demonstrate a concept through appropriate practical development testing and critical analysis. The dissertation engages the student in a progressive course of intellectual discourse involving problem identification, methodology, research, evaluation and recommendation that culminates in the production of manuscript subject to public defense.						
					<b>12</b>	

**LIST OF MAJOR ELECTIVE COURSES**

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
FINT	513	Blockchain and Cryptocurrencies Technologies	2	2	3	
This course introduces students to the Blockchain technology that powers cryptocurrencies. Since Blockchains promise to be as crucial as the internet in shaping how business will be conducted in the future, this course explains the properties and mechanics of Blockchain and cryptocurrencies that make them secure and support other applications than currencies. Other topics covered include the mining, storing and transacting with Bitcoin and altcoins, the anonymity of Bitcoin, the way altcoins or cryptocurrencies touch the real world and interact with politics, law enforcement and regulations, and the future of Blockchain technology, Artificial Intelligence and Digital Privacy.						
FINT	518	Entrepreneurship in FinTech	3	0	3	
Total global fintech investment is increasing and there are no signs that growth in this sector will slow down. This course enables the students to learn the latest trends in fintech and how do innovators, entrepreneurs, and other stakeholders see the space developing? The course also explores the general trends in FinTech and how do fintech entrepreneurs identify and assess opportunities in fintech? and what does the lifecycle of a fintech company – from ideation, to investment, to growth and acquisition – look like? This course will provide a strong foundation for those with a working level of knowledge in fintech and who are interested in starting or investing in fintech companies. In this course students initially explore the concept of FinTech entrepreneurship and evaluate themselves in terms of their own entrepreneurial skills with a view to formulating and realizing opportunity nuclei for profitable small FinTech business. Subsequently, students conduct feasibility studies and formulate business plans for feasible FinTech projects.						
FINT	522	Machine Learning & Artificial Intelligence in Business	2	2	3	
This course provides applied knowledge and understanding related to AI and machine learning in Business. The course will provide various ways in the use of Machine Learning & Artificial Intelligence in Business and different types of industry. The course will provide professional level of						

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skills to develop a strategic framework to support the use of AI and machine learning in the centre of digital transformation for businesses. The course will cover topics related to AI, machine learning, datamining etc.). In addition, the course will focus on ethical challenges related Machine Learning & Artificial Intelligence in Business.

MSFA	507	Risk Management	3	0	3
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This course delves into the significance of effective financial and operational risk management strategy as a necessity for organizational sustainability. It aims to provide learners with a solid theoretical foundation as well as the opportunity to gain the necessary risk management skills. It includes a thorough examination of the risk management components: risk identification, risk analysis, response planning, risk mitigation, and risk monitoring. Topics include, but are not limited to, risk analysis in organizations, as well as tools and instruments used to manage those risks.

MSSM	512	Strategic and Innovation Management	3	0	3
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This course provides the learner with critical knowledge and understanding of principle, practices, and tools to develop an innovative strategy. This course will provide core concepts to develop, evaluate and implement strategy in terms of effectiveness and innovation. At the end of this course the learner will be able to use combination of approaches and demonstrate innovative insights for developing a strategy for sustainable businesses in the challenging world focusing on risk analysis and strategic level decision making.