

# CERTIFICATE OF VALIDATION

<b>Provider Name</b>	Dublin Business School
<b>Date of Validation</b>	25-Sep-18

	<b>First intake</b>	<b>Last intake</b>
<b>Enrolment Interval</b>	Sep-18	Sep-22

	Code	Title	Award	Duration (Months)	Annual Intakes
<b>Principal Programme</b>	PG23852	Master of Science in Financial Technology	HET L9 Major Award pending (Major Award at NFQ Level 9) 9M20662 90 credits	1 year	2
<b>Embedded Programmes</b>	PG23853	Postgraduate Diploma in Science in Financial Technology	HET L9 Major Award pending (Major Award at NFQ Level 9) 9M20663 60 Credits	1 year	2

## Principal Programme

### 5 Year Plan: Planned total enrolment i.e. aggregated across all intakes and all approved centres

	Year 1	Year 2	Year 3	Year 4	Year 5
<b>Minimum Intake into first year</b>	20	30	30	30	30
<b>Maximum Intake into first year</b>	100	100	100	100	100

<b>Target Learner groups</b>	NFQ Level 8 graduates of the appropriate level (2.2) from a cognate discipline. Either full time or part time. The programme is designed to facilitate learners with a science/technology/computing/business/finance background who wish to upskill in this new and emerging area of Fintech. It will also be of interest to learners who have completed their undergraduate degree and wish to specialise in this area.
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<b>Brief Synopsis of the programmes</b>	<p>Technological innovation applied to financial services has created a wave of disruptive activity that will change the shape of the global financial system over the next decade. This has created demand from graduates and employees for programmes specifically tailored to the skills required for a changing financial services industry.</p> <p>This is an interdisciplinary program that focuses on finance, data analytics and computing. It is designed to appeal to graduates seeking to gain exposure to Fintech - the technology enabled business model innovation in the financial sector. It is a 1 year Full Time, 2 year Part Time programme with taught modules and an applied project which combined lead to an Master of Science Financial Technology (Fintech).</p>
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<b>Delivery mode: full-time / part-time</b>	Fulltime and Parttime
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<b>Teaching and Learning Modes</b>	<ol style="list-style-type: none"> <li>1. Class room lectures</li> <li>2. Case-based learning</li> <li>3. Practical skills sessions</li> <li>4. Workshops</li> <li>5. Tutorials</li> <li>6. Individual and group work</li> </ol>
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<b>Approved countries</b>	Ireland
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<b>Approved countries</b>															
<b>Physical resource requirements</b>	Lecture rooms with multimedia resources and suitable for work in breakout groups. Hardware and Software appropriate for the delivery of the programme.														
<b>Staff Profiles</b>	<table border="1"> <thead> <tr> <th><b>Qualifications and Experience</b></th> <th><b>WTE</b></th> </tr> </thead> <tbody> <tr> <td>Masters and/or PhD level in the following areas:</td> <td>0.64</td> </tr> <tr> <td>-Finance: Financing, treasury, research, trading, data analytics &amp; lecturing financial theory &amp; practice.</td> <td></td> </tr> <tr> <td>-Computing: Information security, cloud computing and computer networking.</td> <td></td> </tr> <tr> <td>-Business intelligence, predictive analytics, data management and software engineering. Prince 2 accredited IT Project Manager.</td> <td></td> </tr> <tr> <td>-Financial Economics: Development and execution of strategic initiatives designed to improve business performance, creator of data-driven solutions to critical business needs</td> <td></td> </tr> <tr> <td>-Data Mining and Business Intelligence, Operations Research: Data Scientist, Programming Languages, Data Mining tools expertise, development &amp; Data environments and applications</td> <td></td> </tr> </tbody> </table>	<b>Qualifications and Experience</b>	<b>WTE</b>	Masters and/or PhD level in the following areas:	0.64	-Finance: Financing, treasury, research, trading, data analytics & lecturing financial theory & practice.		-Computing: Information security, cloud computing and computer networking.		-Business intelligence, predictive analytics, data management and software engineering. Prince 2 accredited IT Project Manager.		-Financial Economics: Development and execution of strategic initiatives designed to improve business performance, creator of data-driven solutions to critical business needs		-Data Mining and Business Intelligence, Operations Research: Data Scientist, Programming Languages, Data Mining tools expertise, development & Data environments and applications	
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<b>Programme being replaced by this programme</b>	<table border="1"> <thead> <tr> <th><b>Prog Code</b></th> <th><b>Programme Title</b></th> <th><b>Validated</b></th> <th><b>To Close</b></th> </tr> </thead> <tbody> <tr> <td>NA</td> <td>N/A</td> <td></td> <td></td> </tr> </tbody> </table>	<b>Prog Code</b>	<b>Programme Title</b>	<b>Validated</b>	<b>To Close</b>	NA	N/A								
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NA	N/A														

## Embedded Programme

<b>Code</b>	<b>Title</b>	<b>Award</b>	<b>Duration (Months)</b>	<b>Annual Intakes</b>
PG23853	Postgraduate Diploma in Science in Financial Technology	Master of Science 9M20662 60 credits	1 year	2

### 5 Year Plan: Planned total enrolment i.e. aggregated across all intakes and all approved centres

	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>
<b>Minimum Intake into first year</b>	20	30	30	30	30
<b>Maximum Intake into first year</b>	100	100	100	100	100

**Target Learner groups** NFQ Level 8 graduates (2.2) from a cognate discipline. Either full time or part time. The programme is designed to facilitate learners with a science/technology/computing/business/finance background who wish to upskill in this new and emerging area of Fintech. It will also be of interest to learners who have completed their undergraduate degree and wish to specialise in this area. It may be their preference to take the theory and practical modules only and not complete the applied project.

**Brief Synopsis of the programmes** The Postgraduate Diploma is an embedded award in the MSc in Fintech. It will not be offered separately but is an exit award at 60 ECTS for learners who are unable to complete the full MSc. Technological innovation applied to financial services has created a wave of disruptive activity that will change the shape of the global financial system over the next decade. This has created demand from graduates and employees for programmes specifically tailored to the skills required for a changing financial services industry. This is an interdisciplinary program that focuses on finance, data analytics and computing. It is designed to appeal to graduates seeking to enhance their career prospects in the Fintech - the technology enabled business model innovation in the financial sector. The duration of the PGDip is two twelve-week semesters full-time and three twelve-week semesters part-time.

**Delivery mode: full-time / part-time** Full-time and Part-time

**Teaching and Learning Modes** Class room lectures  
Case-based learning  
Practical skills sessions  
Workshops  
Tutorials  
Individual and group work

**Approved countries where enrolled learners will be based** Ireland

**Physical resource requirements** Lecture rooms with multimedia resources and suitable for work in breakout groups. Hardware and Software appropriate for the delivery of the programme are detailed in section 8.

<b>Staff Profiles</b>	<b>Qualifications and Experience</b>	<b>WTE</b>
	Masters and/or PhD level in the following areas:	0.64
	-Finance: Financing, treasury, research, trading, data analytics & lecturing financial theory & practice.	
	-Computing: Information security, cloud computing and computer networking.	
	-Business intelligence, predictive analytics, data management and software engineering. Prince 2 accredited IT Project Manager.	
	-Financial Economics: Development and execution of strategic initiatives designed to improve business performance, creator of data-driven solutions to critical business needs	
	-Data Mining and Business Intelligence, Operations Research: Data Scientist, Programming Languages, Data Mining tools expertise, development & Data environments and applications	

<b>Approved Centres</b>	<b>Centre</b>	<b>Minimum Number of learners per intake per Centre</b>	<b>Maxium Number of learners per intake per Centre</b>
	Dublin Business School, Dublin 2.	10	50

**Learner Teacher Ratios**

<b>Learning Activity</b>	<b>Ratio</b>
Workshops	1:25
Practical sessions	1:25
Class room sessions	1:30

**Programme being replaced  
by this programme**

<b>Prog Code</b>	<b>Programme Title</b>	<b>Validated</b>	<b>To Close</b>
NA	N/A		

# Conditions of Validation of the Programmes Covered by this Certificate of Validation

## Part 1: Statutory Conditions of Validation

The statutory (section 45(3) of the 2012 Act) conditions of validation are that the provider of the programme shall:

- 1.co-operate with and assist QQI in the performance of QQI's functions in so far as those functions relate to the functions of the provider,
- 2.establish procedures which are fair and consistent for the assessment of enrolled learners to ensure the standards of knowledge, skill or competence determined by QQI under section 49 (1) are acquired, and where appropriate, demonstrated, by enrolled learners,
- 3.continue to comply with section 65 of the 2012 Act in respect of arrangements for the protection of enrolled learners, if applicable, and
- 4.provide to QQI such information as QQI may from time to time require for the purposes of the performance of its functions, including information in respect of completion rates.

## Part 2 Conditions of Validation Established by QQI Under section 45(4)(b) of the 2012 Act

### Part 2.1 Condition of Validation Concerning a Change in the QQI Award or Award Standard

- 1.Where QQI changes an award title, an award specification or an award standard that a programme depends upon, the provider shall not enrol any further learners on the affected programmes unless informed otherwise in writing by QQI (e.g. by the issue of a revised certificate of validation). The programme is considered validated for learners already enrolled on the affected programme.

### Part 2.2 Condition of Validation Concerning the Duration of Enrolment

- 1.The duration of enrolment is the interval during which learners may be enrolled on the validated programme.

Validation is determined by QQI for a specified number of years of enrolment appropriate to the particular programme as indicated on the certificate on validation subject to unit 9.2.1. It is a condition of validation that the programme does not enrol any new learners outside this interval. A typical duration would be five years.

If a provider wishes to continue to enrol learners to the programme beyond this interval the provider must arrange in good time for it to be validated again by QQI, or exceptionally the provider may apply for extension of the duration of enrolment (unit (14)). In this context the provider may apply for validation of the programme from first principles or, alternatively, the provider may avail of the process for revalidation (unit (13)) by QQI.

### Part 2.3 General Condition of Validation

The provider of the programme shall:

- 1.Ensure that the programme as implemented does not differ in a material way from the programme as validated; differing in a material way is defined as differing in any aspect of the programme or its implementation that was material to QQI's validation criteria.
- 2.Ensure that the programme is provided with the appropriate staff and physical resources as validated.
- 3.Implement in respect of the programme its written quality assurance procedures (as approved by QQI).
- 4.Make no significant change to the programme without the prior approval of QQI. (See unit (8)).
- 5.Unless otherwise agreed by QQI in writing, start implementing the programme as validated and enrol learners within 18 months of validation.

6. Continue in respect of the validated programme to comply with section 56 of the 2012 Act in respect of procedures for access, transfer and progression.
7. Implement the programme and procedures for assessment of learners in accordance with the Approved Programme Schedule and notify QQI in writing of any amendments to this arising from changes to the programme; see unit (9).
8. When advertising and promoting the programme and awards, use the programme title as validated, and the correct QQI award title(s), award type(s) and award class(es) indicating the level of the award(s) on the National Framework of Qualifications.
9. Adhere to QQI regulations and procedures for certification.
10. Notify QQI in writing without delay of:
  - a. any material change to the programme;
  - a. anything that impacts on the integrity or reputation of the programme or the corresponding QQI awards;
  - b. anything that infringes the conditions of validation; or
  - c. anything that would be likely to cause QQI to consider reviewing the validation.
11. Notify QQI in writing to determine the implications for the provider's validated programmes, where the provider is likely to, or planning to, merge (amalgamate) with another entity or to acquire, or be acquired by, another entity (see unit (12.5)).
12. Report to QQI, when required or requested, on its implementation of the programme and compliance with the conditions of validation.

#### **Part 2.4 General Condition of Validation Arising from Specialised Validation Policy and Criteria**

1.

#### **Part 2.5 Special Conditions of Validation**

- 1) Tutorial support to comprise of additional direct contact hours be provided for the following modules: Quantitative Financial Modelling, Dataanalytics & Machine Learning and Applied Financial Analysis. The proposed programme schedules will need to be revised to reflect actual class contact time (including lectures and tutorials) and hours allocated to directed e-learning should be re-defined to ensure clarity in relation to class contact hours.
- 2) The module on Quantitative Financial Modelling needs to be underpinned by a conceptual understanding of Python and R, to be provided through tutorial support (involving class contact hours). This tutorial support may not be required for full semester, but at least in the initial 4 - 5 weeks of the semester.
- 3) Minimum entry requirements should be clarified and consistent throughout programme documentation, including a definition of relevant cognate disciplines and mathematical requirement.

<b>Name of Provider:</b>		Dublin Business School												
<b>Programme Title</b>		Master of Science in Financial Technology (Fintech)												
<b>Award Title</b>		Master of Science												
<b>Stage Exit Award Title<sup>3</sup></b>		Postgraduate Diploma in Science in Financial Technology (Fintech)												
<b>Modes of Delivery (FT/PT):</b>		Full Time												
<b>Teaching and learning modalities</b>		Formal lectures, seminars interactive group work, specific learning groups as defined by area of academic need, workshops, presentations, educator/teacher review, case-based learning, problem based learning												
<b>Award Class<sup>4</sup></b>	<b>Award NFQ level</b>	<b>Award EQF Level</b>	<b>Stage (1, 2, 3, 4, ..., or Award Stage):</b>	<b>Stage NFQ Level<sup>2</sup></b>	<b>Stage EQF Level<sup>2</sup></b>	<b>Stage Credit (ECTS)</b>	<b>Date Effective</b>	<b>ISCED Subject code</b>						
Major	9	7	Award	9	7	90	1 <sup>st</sup> Sept 2018	0412						
<b>Module Title</b> (Up to 70 characters including spaces)	<b>Semester no where applicable (Semester 1 or Semester 2)</b>	<b>Module</b>		<b>Credit Number<sup>5</sup></b>	<b>Total Student Effort Module (hours)</b>					<b>Allocation Of Marks (from the module assessment strategy)</b>				
		<b>Status<sup>19</sup></b>	<b>NFQ Level<sup>1</sup> where specified</b>	<b>Credit Units</b> ECTS	<b>Total Hours</b>	<b>Class (or equiv) Contact Hours</b>	<b>Directed e-learning</b>	<b>Directed Learning</b>	<b>Hours of Independent Learning</b>	<b>Work-based learning effort<sup>20</sup></b>	<b>C.A. %</b>	<b>Supervised Project %</b>	<b>% practical demonstration</b>	<b>Proctored practical demonstration</b>
Fintech: Markets & Services	1	M		10ECTS	250	48	50	152		60				40
Quantitative Financial Modelling	1	M		10ECTS	250	60	50	140		60				40
Information & Cybersecurity Management	1	M		5 ECTS	125	30	50	45		100				
Blockchain & Distributed Ledger Technologies	1	M		5 ECTS	125	30	50	45		100				
Fintech Regulation	2	M		10 ECTS	250	48	50	152		60				40
Data Analytics & Machine Learning	2	M		10ECTS	250	60	50	140		60				40
Applied Financial Analysis	2	M		5 ECTS	250	30	50	45		100				
Innovation & Entrepreneurship in Fintech	2	M		5 ECTS	125	24	50	51		100				
<b>Special Regulations (Up to 280 characters)</b>														
<b>None</b>														

<b>Name of Provider:</b>		Dublin Business School										
<b>Programme Title</b>		Master of Science in Financial Technology (Fintech)										
<b>Award Title</b>		Master of Science										
<b>Stage Exit Award Title<sup>3</sup></b>		Postgraduate Diploma in Science in Financial Technology										
<b>Modes of Delivery (FT/PT):</b>		Part Time										
<b>Teaching and learning modalities</b>		Formal lectures, seminars interactive group work, specific learning groups as defined by area of academic need, workshops, presentations, educator/teacher review, case-based learning, problem based learning										
<b>Award Class<sup>4</sup></b>	<b>Award NFQ level</b>	<b>Award EQF Level</b>	<b>Stage (1, 2, 3, 4, ..., or Award Stage):</b>	<b>Stage NFQ Level<sup>2</sup></b>	<b>Stage EQF Level<sup>2</sup></b>	<b>Stage Credit (ECTS)</b>	<b>Date Effective</b>	<b>ISCED Subject code</b>				
Major	9	7	Award	9	7	90	1 <sup>st</sup> Sept 2018	0412				
<b>Module Title</b> (Up to 70 characters including spaces)	<b>Semester no where applicable (Semester 1 or Semester 2)</b>	<b>Module</b>	<b>NFQ Level<sup>1</sup> where specified</b>	<b>Credit Number<sup>5</sup></b>	<b>Total Student Effort Module (hours)</b>					<b>Allocation Of Marks (from the module assessment strategy)</b>		
					<b>Total Hours</b>	<b>Class (or equiv) Contact Hours</b>	<b>Directed e-learning</b>	<b>Hours of Independent Learning</b>	<b>Work-based learning effort<sup>22</sup></b>	<b>C.A. %</b>	<b>% Supervised Project %</b>	<b>Proctored practical demonstration</b>
Fintech: Markets & Services	1	M		10ECTS	62	152		60			40	
Quantitative Financial Modelling	2	M		10ECTS	62	140		60			40	
Information & Cybersecurity Management	1	M		5 ECTS	56	45		100				
Blockchain & Distributed Ledger Technologies	1	M		5 ECTS	56	45		100				
Fintech Regulation	2	M		10 ECTS	62	152		60			40	
Data Analytics & Machine Learning	2	M		10 ECTS	62	140		60			40	
Applied Financial Analysis	3	M		5 ECTS	56	45		100				
Innovation & Entrepreneurship in Fintech	3	M		5 ECTS	56	51		100				
<b>Special Regulations (Up to 280 characters)</b>												
None												



<b>Name of Provider:</b>		Dublin Business School										
<b>Programme Title</b>		Master of Science in Financial Technology (Fintech)										
<b>Award Title</b>		Master of Science										
<b>Stage Exit Award Title<sup>3</sup></b>		N/A										
<b>Modes of Delivery (FT/PT):</b>		Full Time										
<b>Teaching and learning modalities</b>		Formal lectures, seminars interactive group work, specific learning groups as defined by area of academic need, workshops, presentations, educator/teacher review, case-based learning, problem based learning										
<b>Award Class<sup>4</sup></b>	<b>Award NFQ level</b>	<b>Award EQF Level</b>	<b>Stage (1, 2, 3, 4, ..., or Award Stage):</b>	<b>Stage NFQ Level<sup>2</sup></b>	<b>Stage EQF Level<sup>2</sup></b>	<b>Stage Credit (ECTS)</b>	<b>Date Effective</b>	<b>ISCED Subject code</b>				
Major	9	7	Award	9	7	90	1 <sup>st</sup> Sept 2018	0412				
<b>Module Title</b> (Up to 70 characters including spaces)	<b>Semester no where applicable (Semester 1 or Semester 2)</b>	<b>Module</b>		<b>Credit Number<sup>5</sup></b>	<b>Total Student Effort Module (hours)</b>					<b>Allocation Of Marks (from the module assessment strategy)</b>		
		<b>Status<sup>15</sup></b>	<b>NFQ Level<sup>1</sup> where specified</b>		<b>Total Hours</b>	<b>Class (or equiv) Contact Hours</b>	<b>Directed e-learning</b>	<b>Hours of Independent Learning</b>	<b>Work-based learning effort<sup>16</sup></b>	<b>C.A. %</b>	<b>Supervised Project %</b>	<b>Proctored practical demonstration %</b>
Fintech: Markets & Services	1	M		10ECTS	250	48	50	152	60			40
Quantitative Financial Modelling	1	M		10ECTS	250	60	50	140	60			40
Information & Cybersecurity Management	1	M		5 ECTS	125	30	50	45	100			
Blockchain & Distributed Ledger Technologies	1	M		5 ECTS	125	30	50	45	100			
Fintech Regulation	2	M		10 ECTS	250	48	50	152	60			40
Data Analytics & Machine Learning	2	M		10ECTS	250	60	50	140	60			40
Applied Financial Analysis	2	M		5 ECTS	250	30	50	45	100			
Innovation & Entrepreneurship in Fintech	2	M		5 ECTS	125	24	50	51	100			
Research Methods*	1 / 2	M		5 ECTS	125	24	50	51	100			
Applied Project	3	M		25 ECTS	624	24	24	600	100			
<b>Special Regulations (Up to 280 characters)</b>												
<b>Students will not progress to the Applied Project module unless all taught modules have been passed. *All CA components in Research Methods must be passed individually</b>												

<b>Name of Provider:</b>		Dublin Business School													
<b>Programme Title</b>		Master of Science in Financial Technology (Fintech)													
<b>Award Title</b>		Master of Science													
<b>Stage Exit Award Title<sup>3</sup></b>		N/A													
<b>Modes of Delivery (FT/PT):</b>		Part Time													
<b>Teaching and learning modalities</b>		Formal lectures, seminars interactive group work, specific learning groups as defined by area of academic need, workshops, presentations, educator/teacher review, case-based learning, problem based learning													
<b>Award Class<sup>4</sup></b>	<b>Award NFQ level</b>	<b>Award EQF Level</b>	<b>Stage (1, 2, 3, 4, ..., or Award Stage):</b>	<b>Stage NFQ Level<sup>2</sup></b>	<b>Stage EQF Level<sup>2</sup></b>	<b>Stage Credit (ECTS)</b>	<b>Date Effective</b>	<b>ISCED Subject code</b>							
Major	9	7	Award	9	7	90	1 <sup>st</sup> Sept 2018	0412							
<b>Module Title</b> (Up to 70 characters including spaces)		<b>Semester no where applicable (Semester 1 or Semester 2)</b>	<b>Module</b>		<b>Credit Number<sup>5</sup></b>	<b>Total Student Effort Module (hours)</b>					<b>Allocation Of Marks (from the module assessment strategy)</b>				
			<b>Status<sup>17</sup></b>	<b>NFQ Level<sup>1</sup> where specified</b>	<b>Credit Units</b>	<b>Total Hours</b>	<b>Class (or equiv) Contact Hours</b>	<b>Directed e-learning</b>	<b>Learning Independent</b>	<b>Hours of learning effort<sup>18</sup></b>	<b>Work-based learning effort<sup>18</sup></b>	<b>C.A. %</b>	<b>Supervised Project %</b>	<b>% practical demonstration</b>	<b>Proctored practical demonstration</b>
ECTS Credits															
Fintech: Markets & Services		1	M		10ECTS	250	36	62	152		60				40
Quantitative Financial Modelling		2	M		10ECTS	250	48	62	140		60				40
Information & Cybersecurity Management		1	M		5 ECTS	125	24	56	45		100				
Blockchain & Distributed Ledger Technologies		1	M		5 ECTS	125	24	56	45		100				
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Applied Financial Analysis		3	M		5 ECTS	125	24	56	45		100				
Innovation & Entrepreneurship in Fintech		3	M		5 ECTS	125	18	56	51		100				
Research Methods		1 / 2 /3	M		5 ECTS	125	18	56	51		100				
Applied Project		4	M		25 ECTS	624	24		600			100			
<b>Special Regulations (Up to 280 characters)</b>															
<b>Students will not progress to the Applied Project module unless all taught modules have been passed.</b>															