

## CERTIFICATE OF VALIDATION

New validation

Programme State: **New**

<b>Provider Name</b>	Dublin Business School
<b>Date of Validation</b>	15-Oct-20

	<b>First Intake</b>	<b>Last Intake</b>	<b>Intakes pre annum</b>
<b>Enrolment Interval</b>	01-Jan-21	31-Dec-25	3

	Code	Title	Award	Full Time Duration (months)	Part Time Duration (months)	Annual Intakes
<b>Principal Programme</b>	PG24324	Master of Science in Artificial Intelligence	Master of Science in Artificial Intelligence	12	24	3
<b>Embedded Programme</b>	N/A					

### 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>	10	10	10	10	10
<b>Maximum Intake into first year</b>	90	150	180	180	180

<b>Target Learner groups</b>	<p>The Master of Science in Artificial Intelligence programme is aimed at learners with second-class second-division (2.2) Level 8 honours bachelor's degree or Higher Diploma in a cognate area who wish to specialise in the field of Artificial Intelligence with a view to entering industry. Cognate subjects include computer science, technology, networking, information systems, engineering, general science, mathematics, statistics, data analytics or related discipline. Learners with a minimum second-class second-division (2.2) Level 8 honours bachelor's degree in a non-cognate area plus 3–5 years' professional experience in a related field and who require a qualification in this area in order to progress professionally. Learners can also access this programme through RPL. Such applicants will be assessed on a case-by-case basis. On completion of this programme, learners will have the expertise to operate at a professional level and effectively integrate their skills into decision-making in their company. Through the Applied Research Project, learners will develop independent research and problem-solving skills which will be valuable in a variety of contexts in the workplace.</p>
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**Brief Synopsis of the programmes**

The Masters has been designed to meet the growing need for Artificial Intelligence (AI) throughout the workforce which can directly create added value and wealth to the Irish businesses and the society. Given society's increasing communications with the global partners, AI is emerging as an identifiable discipline with a breadth and depth of content that encompasses many of the subfields (e.g. software development, machine learning, human/machine interactions etc.) that form the modern computing ecosystem. Semester one (FT) lays the groundwork for the programme and encompasses mostly foundational modules that focus on providing a solid and comprehensive understanding of the relevant concepts, a proficiency in the use of programming for data analytics and machine learning and pattern recognition. Learners develop advanced applied skills in essential areas such as programming, graph, machine learning and pattern recognition for AI while also offering theoretical knowledge of cognitive science. Semester two (FT) builds on this by covering advanced modules in which the knowledge, understanding and skills acquired in the first semester can be employed. Semester two modules offer applied skills in topics such as deep learning, reinforcement learning and natural language processing, as well as recommender systems. Semester two also comprises an Applied Research Methods module, which focuses on research and development skills. This module will inform learners' Applied Research Project in Semester three (FT). In addition, the programme aims to incorporate advanced practical skills in each module for the professional development of learners to enhance their employability options. This will enable the learner to integrate seamlessly into an organisation by addressing skills such as awareness of social media, leadership, self-management, teamwork and academic writing that are essential for a Level 9 graduate. It is a 1-year full-time, 18 months part-time programme with five 5 ECTS and four 10 ECTS taught modules, and a 25 ECTS Applied Research Project.

**Delivery mode: full-time / part-time**

Full Time

**Teaching and Learning Modes**

1. Lectures / Classes
2. Practical Sessions
3. Tutorials

**Approved Countries**

Ireland

**Physical resource requirements**

Lecture rooms with multimedia resources and physical resources suitable for working in breakout groups. Classroom / computer rooms with requisite software required for the delivery of the programme are detailed in each of the module descriptors and also in Section 8.

**Staff Profiles****Qualifications and Experience**

a minimum of a Level 9 Postgraduate Diploma or Masters and/or PhD in the following areas: Mathematics, Statistics, Computer Science, Computing, Artificial Intelligence, Software Development, Data Analytics, and Database Development, Networks, Enterprise Information Systems, etc.  
In modules where industry experience is desirable, holders of Level 8 honours degrees in the above disciplines, who are exceptionally qualified by virtue of significant senior industry experience may also be considered.

**WTE**

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Approved Centres	Centre	Minimum Number of learners per intake per Centre	Maximum Number of learners per intake per Centre
	38628L Dublin Business School	10	100

Learner Teacher Ratios	Learning Activity	Ratio
	Lecture classroom-based sessions	1:60
	Online class (broadcast live)	1:60
	Online tutorial (interactive)	1:25
	Practical Lab sessions	1:35
	Workshops	1:25

Programme being replaced by this programme	Prog Code	Programme Title	Validated	To Close
	N/A	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**

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