



CERTIFICATE OF VALIDATION

New validation

Validation Process: **New**

Provider Name	National College of Ireland
Date of Validation	10-Feb-22

	Code	Title	Award	Exit
Principal Programme	PG24672	Master of Science in AI for Business	Master of Science (Masters Degree at NFQ Level 9) 9M21787 90 credits	N/A
Embedded Programme	PG24694	Postgraduate Diploma in Science in AI for Business	Postgraduate Diploma in Science (Postgraduate Diploma at NFQ Level 9) 9M21789 60 credits	No

	First Intake	Last Intake
Enrolment Interval	Sep-22	Sep-26

Principal Programme

	Full Time	Part Time	Delivery Mode: full-time / part-time
Maximum Intakes per Annum:	1	1	Full Time, Part Time
Minimum Learners per Intake:	10	10	
Maximum Learners per Intake:	35	15	
Duration (months)	12	24	

Target Learner Groups

The Master of Science in AI for Business is aimed to graduates who hold a Level 8 Bachelor of Arts/Science, or equivalent, in STEM (e.g., Information Management Systems, Information Technologies, Computer Science, Computer Engineer, Business Information Systems) or Business (e.g., Business Administration, Economics) discipline and is seeking to understand the impacts, design, application, and operationalisation of AI solutions in business contexts. Candidates are required to demonstrate numerical and computer proficiency and have a minimal of three years of relevant work experience in industry.

Graduates with other Level 8 qualifications may apply for the programme and will be evaluated on a case-by-case basis. NCI also operates a prior experiential learning policy where graduates with lower, or no formal qualifications, currently working in a relevant field, may be considered for the programme.



Brief Synopsis of the Programmes

The overall goal of the Master of Science in AI for Business degree is to provide graduates with essential knowledge, skills, and competence to understand the impacts, design, application, and operationalisation of AI solutions in business contexts. The MSc in AI for Business is a balanced programme with modules that aim to endow learners with (i) high-level of AI knowledge (Foundations of AI, AI Technologies for Business, Data Analytics for Business), (ii) understanding the impacts of human factors and engagement in AI (Intelligent Agents and Process Automation, Human Centred AI, Customer Engagement and AI), and (iii) understanding the operationalisation and application of AI (Data Governance and Ethics, Risk and Change Management, Emerging AI Technologies and Sustainability). The programme also includes a final supervised project whose theme requires the formulation of a business strategy as an applied project or as an industry-based project. The latter provides an opportunity for learners to collaborate in a real-world industry-based project as a trainee, which is one of the distinctive features of this programme. In other words, through the supervised projects, the learners will be able to perform independent research that puts them into a position to make informed and critical decisions regarding the use of AI technologies in a business context.

Upon completion of this course, graduates will (i) develop foundational critical understanding of AI and its applications across industries, (ii) design an AI-based strategy that can be integrated into an industrial workflow of a business, (iii) be able to ask strategic questions and explain AI strategies to different stakeholders, and (iv) formulate proposals while evaluating opportunities to integrate AI technologies into a corporate strategy.

This programme is a 1-year full-time or a 2-year part-time Master of Science degree aimed at graduates of Level 8 (or equivalent) in a STEM or Business discipline and who has a minimum of three years of relevant work experience in industry, ideally but not necessarily, in management. The programme leads to a NFQ Level 9 award of Master of Science in AI for Business awarded by QQI. Graduates of the programme take up roles as Business Strategist, Business Analyst, AI Strategist, AI Consultant, AI Leader, AI Team Lead among others.

Teaching and Learning Modes

1. Directed Learning
2. E-learning (directed)
3. Lectures / Classes
4. Tutorials
5. Work experience

Approved Countries

Ireland

Physical Resource Requirements

The programme will provide appropriate learning spaces to facilitate the teaching, learning & assessment strategy of the programme. Learning spaces will accommodate traditional classrooms, spaces for collaborative learning and access to appropriate technologies as required by individual module curriculum, e.g., RapidMiner, SPSS, or similar products. Students will also have access to appropriate personal study space, as well as recreation and dining spaces.

Staff Profiles	Qualifications and Experience	WTE
Programme Coordinator	Programme Coordinator who is responsible for coordinating the administration aspects of the programme. Programme Coordinator shall have high technological proficiency using computers, along with great organisational, multitasking, communication, and people skills. Desirable College degree or previous experience in this role.	0.5
Programme Director	Programme Directors who are responsible for the academic management of the programme and may also be lecturer with academic experience at Level 9 or equivalent delivering modules in ICT, Business, Maths and Statistics, Artificial Intelligence, Machine Learning, and Data Analytics.	0.5
Lecturer	Lecturer with academic experience at Level 9 or equivalent delivering modules in ICT, Business, Maths and Statistics, Artificial Intelligence, Machine Learning, and Data Analytics.	5



Approved Centres	Centre	Minimum Number of Learners per Intake per Centre	Maximum Number of Learners per Intake per Centre
	42522R National College of Ireland	20	50

Additional Locations	Location Name	Minimum Enrolment per Annum	Maximum Enrolment per Annum
	N/A		

Learner Teacher Ratios	Learning Activity	Ratio
	Supervision	1:15
	Practical Session	1:25
	Lecture	1:100

Programme being replaced by this Programme	Prog Code	Programme Title	Validated
	N/A		



Embedded Programme

Validation Process: **New**

Code	Title	Award	Exit
PG24694	Postgraduate Diploma in Science in AI for Business	Postgraduate Diploma in Science (Postgraduate Diploma at NFQ Level 9) 9M21789 60 credits	No

	Full Time	Part Time	Delivery Mode: full-time / part-time
Maximum Intakes per Annum:	0	1	Part Time
Minimum Learners per Intake:	0	10	
Maximum Learners per Intake:	0	50	
Duration (months)	N/A	12	

Target Learner Groups

The Postgraduate in AI for Business is aimed to graduates who hold a Level 8 qualification in STEM (e.g., Information Management Systems, Information Technologies, Computer Science, Computer Engineer, Business Information Systems) or Business (e.g., Business Administration, Economics) discipline and is seeking to understand the impacts, design, application, and operationalisation of AI solutions in business contexts. Candidates are required to demonstrate numerical and computer proficiency and have a minimal of three years of relevant work experience in industry.

Graduates with other Level 8 qualifications may apply for the programme and will be evaluated on a case by case basis. NCI also operates a prior experiential learning policy where graduates with lower, or no formal qualifications, currently working in a relevant field, may be considered for the programme.

Brief Synopsis of the Programmes

The overall goal of the Postgraduate Diploma in AI for Business is to provide graduates with essential knowledge, skills, and competence to understand the impacts of, design, application, and operationalisation of AI solutions in business contexts. This is a balanced programme with modules that aim to endow learners with (i) high-level of AI knowledge (Foundations of AI, AI Technologies for Business, Data Analytics for Business), (ii) understanding the impacts of human factors and engagement in AI (Intelligent Agents and Process Automation, Human Centred AI, Customer Engagement and AI), and (iii) understanding the operationalisation and application of AI (Data Governance and Ethics, Risk and Change Management, Emerging AI Technologies and Sustainability).

Upon completion of this course, graduates will (i) develop foundational critical understanding of AI and its applications across industries, (ii) design an AI-based strategy that can be integrated into an industrial workflow of a business, (iii) be able to ask strategic questions and explain AI strategies to different stakeholders, and (iv) formulate proposals while evaluating opportunities to integrate AI technologies into a corporate strategy. Graduates will be able to make informed and critical decisions regarding the use of AI technologies in business contexts.

This programme is a 1-year part-time Postgraduate Diploma degree aimed at graduates of Level 8 (or equivalent) in a STEM or Business discipline and who has a minimum of three years of relevant work experience in industry, ideally but not necessarily, in management. The programme leads to a NFQ Level 9 award of Postgraduate Diploma in AI for Business awarded by QQI. Graduates of the programme take up roles as Business Strategist, Business Analyst, AI Strategist, AI Consultant, AI Leader, AI Team Lead among others.



Teaching and Learning Modes	<ol style="list-style-type: none"> 1. Directed Learning 2. E-learning (directed) 3. E-learning (self-directed) 4. Lectures / Classes 5. Practical Sessions 6. Work experience
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Approved Countries	Ireland
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Physical Resource Requirements

The programme will provide appropriate learning spaces to facilitate the teaching, learning & assessment strategy of the programme. Learning spaces will accommodate traditional classrooms, spaces for collaborative learning and access to appropriate technologies as required by individual module curriculum, e.g., RapidMiner, SPSS, or similar products. Students will also have access to appropriate personal study space, as well as recreation and dining spaces.

Staff Profiles	Qualifications and Experience	WTE
Lecturer	Lecturer with academic experience at Level 9 or equivalent delivering modules in ICT, Business, Maths and Statistics, Artificial Intelligence, Machine Learning, and Data Analytics.	5
Programme Coordinator	Programme Directors who are responsible for the academic management of the programme and may also be lecturer with academic experience at Level 9 or equivalent delivering modules in ICT, Business, Maths and Statistics, Artificial Intelligence, Machine Learning, and Data Analytics.	0.5
Programme Coordinator	Programme Coordinator who is responsible for coordinating the administration aspects of the programme. Programme Coordinator shall have high technological proficiency using computers, along with great organisational, multitasking, communication, and people skills. Desirable College degree or previous experience in this role.	0.5

Approved Centres	Centre	Minimum Number of Learners per Intake per Centre	Maximum Number of Learners per Intake per Centre
	42522R National College of Ireland	10	50

Additional Locations	Location Name	Minimum Enrolment per Annum	Maximum Enrolment per Annum
	N/A		

Learner Teacher Ratios	Learning Activity	Ratio
	Lecture	1:100
	Practical Session	1:25
	Supervision	1:15

Programme being replaced by this Programme	Prog Code	Programme Title	Validated
	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



Programme and stage schedules

PG24672 Master of Science in AI for Business

Name of Provider		National College of Ireland											
Programme Title		PG24672 Master of Science in AI for Business											
Award Title		Master of Science					Exit Award		N/A				
Teaching and learning modalities		Directed Learning; Lectures / Classes; Work experience; Tutorials; E-learning (directed)											
Delivery Modes	Award Class	Award NFQ Level	Award EQF Level	Stage	Stage NFQ Level	Stage Credits	First Intake		ISCED Code				
Full time	Major	9	7	Award Stage	9	90	Sep 2022		06.1.9				
Module				Total Student Effort Module (Hours)					Allocation of Marks				
Title	Semester	Status	Credit	Total Hours	Class Contact Hours	Direct e-learning	Hours of Independent learning	Work-based learning efforts	C.A. %	Project %	Skills demonstration %	Exam %	Workbased %
Foundations of Artificial Intelligence	1	M	5	125	36	0	89	0	60	0	0	40	0
Data Governance and Ethics	1	M	5	125	36	0	89	0	40	0	0	60	0
Risk and Change Management	1	M	5	125	36	0	89	0	100	0	0	0	0
Data Analytics for Business	1	M	5	125	36	0	89	0	100	0	0	0	0
Artificial Intelligence Technologies for Business	1	M	10	250	48	0	202	0	100	0	0	0	0
Intelligent Agents and Process Automation	2	M	5	125	36	0	89	0	100	0	0	0	0
Human Centered Artificial Intelligence	2	M	10	250	48	0	202	0	50	0	0	50	0
Customer Engagement and Artificial Intelligence	2	M	10	250	48	0	202	0	100	0	0	0	0
Emerging Artificial Intelligence Technologies and Sustainability	3	M	5	125	36	0	89	0	50	0	0	50	0
Practicum	2, 3	E	30	750	48	0	702	0	0	100	0	0	0
Internship	2, 3	E	30	750	48	0	510	192	0	100	0	0	0

PG24672 Master of Science in AI for Business

Name of Provider:		National College of Ireland											
Programme Title		Master of Science in AI for Business											
Award Title		Master of Science in AI for Business											
Stage Exit Award Title ³		Postgraduate Diploma in Science in AI for Business											
Modes of Delivery (FT/PT):		FT											
Teaching and learning modalities		Blended Learning											
Award Class ⁴	Award NFQ level	Award EQF Level	Stage (1, 2, 3, 4, ..., or Award Stage):	Stage NFQ Level ²	Stage Level ²	EQF	Stage (ECTS)	Credit	Date Effective	ISCED Subject code			
Major	9	7	Award	9	7		90		Sep 2022	0619			
Module Title (Up to 70 characters including spaces)	Semester no where applicable. (Semester 1 or Semester2)	Module		Credit Number ⁵	Total Student Effort Module (hours)					Allocation of Marks (from the module assessment strategy)			
		Status ³	NFQ Level ¹ where specified	Credit Units	Total Hours	Class (or equiv) Contact Hours	Directed e-learning	Hours of Independent Learning	Work-based learning effort ⁴	C.A. %	Supervised Project %	Proctored practical demonstration %	Proctored written exam %
Foundations of Artificial Intelligence	1	M	9	5	125	36		89		100%			40%
Data Governance and Ethics	1	M	9	5	125	36		89		100%			60%
Data Analytics for Business	1	M	9	5	125	36		89		100%			
Risk and Change Management	1	M	9	5	125	36		89		100%			
Artificial Intelligence Technologies for Business	1	M	9	10	250	48		202		100%			
Intelligent Agents and Process Automation	2	M	9	5	125	36		89		100%			
Human Centered Artificial Intelligence	2	M	9	10	250	48		202		30%			70%
Customer Engagement and Artificial Intelligence	2	M	9	10	250	48		202		100%			
Emerging Artificial Intelligence Technologies and Sustainability	3	M	9	5	125	36		89		50%			50%
Practicum	3	E	9	30	750	36	12	702			100%		
Internship	3	E	9	30	750	36	12	510	192		100%		
Special Regulations (Up to 280 characters)													
The Practicum and Internship modules cannot be compensated.													

³ Mandatory (M) or elective (E)

⁴ Work-based learning effort is not the number of hours in the workplace. For example, a person might spend 35 hours in the workplace as a trainee and this might involve 7 hours of learning effort.

PG24672 Master of Science in AI for Business

Name of Provider:		National College of Ireland											
Programme Title		Master of Science in AI for Business											
Award Title		Master of Science in AI for Business											
Stage Exit Award Title ³		Postgraduate Diploma in Science in AI for Business											
Modes of Delivery (FT/PT):		PT											
Teaching and learning modalities		Classroom											
Award Class ⁴	Award NFQ level	Award EQF Level	Stage (1, 2, 3, 4, ..., or Award Stage):	Stage NFQ Level ²	Stage EQF Level ²	Stage (ECTS)	Credit	Date Effective	ISCED Subject code				
Major	9	7	Award	9	7	90		Sep 2022	0619				
Module Title (Up to 70 characters including spaces)	Semester no where applicable. (Semester 1 or Semester2)	Module		Credit Number ⁵	Total Student Effort Module (hours)					Allocation of Marks (from the module assessment strategy)			
		Status ⁵	NFQ Level ¹ where specified	Credit Units	Total Hours	Class (or equiv) Contact Hours	Directed e-learning	Hours of Independent Learning	Work-based learning effort ⁶	C.A. %	Supervised Project %	Proctored practical demonstration %	Proctored written exam %
Foundations of Artificial Intelligence	1	M	9	5	125	36		89		60%			40%
Data Governance and Ethics	1	M	9	5	125	36		89		40%			60%
Artificial Intelligence Technologies for Business	1	M	9	10	250	48		202		100%			
Risk and Change Management	2	M	9	5	125	36		89		100%			
Intelligent Agents and Process Automation	2	M	9	5	125	36		89		100%			
Human Centered Artificial Intelligence	2	M	9	10	250	48		202		30%			70%
Customer Engagement and Artificial Intelligence	3	M	9	10	250	48		202		100%			
Data Analytics for Business	3	M	9	5	125	36		89		100%			
Emerging Artificial Intelligence Technologies and Sustainability	3	M	9	5	125	36		89		50%			50%
Practicum	4	E	9	30	750	48		702		100%			
Internship	4	E	9	30	750	48		510	192	100%			
Special Regulations (Up to 280 characters)													
The Practicum and Internship modules cannot be compensated.													

⁵ Mandatory (M) or elective (E)

⁶ Work-based learning effort is not the number of hours in the workplace. For example, a person might spend 35 hours in the workplace as a trainee and this might involve 7 hours of learning effort.

PG24672 Master of Science in AI for Business

Name of Provider:		National College of Ireland											
Programme Title		Master of Science in AI for Business											
Award Title		Master of Science in AI for Business											
Stage Exit Award Title ³		Postgraduate Diploma in Science in AI for Business											
Modes of Delivery (FT/PT):		PT											
Teaching and learning modalities		Blended learning											
Award Class ⁴	Award NFQ level	Award EQF Level	Stage (1, 2, 3, 4, ..., or Award Stage):	Stage NFQ Level ²	Stage Level ²	EQF	Stage (ECTS)	Credit	Date Effective	ISCED Subject code			
Major	9	7	Award	9	7		90		Sep 2022	0619			
Module Title (Up to 70 characters including spaces)	Semester no where applicable. (Semester 1 or Semester2)	Module		Credit Number ⁵	Total Student Effort Module (hours)					Allocation of Marks (from the module assessment strategy)			
		Status ⁷	NFQ Level ¹ where specified		Credit Units	Total Hours	Class (or equiv) Contact Hours	Directed e-learning	Independent Learning	Hours of Work-based learning effort ⁸	C.A. %	Supervised Project %	Proctored practical demonstration %
Foundations of Artificial Intelligence	1	M	9	5	125	24	12	89		60%			40%
Data Governance and Ethics	1	M	9	5	125	24	12	89		40%			60%
Artificial Intelligence Technologies for Business	1	M	9	10	250	24	24	202		100%			
Risk and Change Management	2	M	9	5	125	24	12	89		100%			
Intelligent Agents and Process Automation	2	M	9	5	125	24	12	89		100%			
Human Centered Artificial Intelligence	2	M	9	10	250	24	24	202		30%			70%
Customer Engagement and Artificial Intelligence	3	M	9	10	250	24	24	202		100%			
Data Analytics for Business	3	M	9	5	125	24	12	89		100%			
Emerging Artificial Intelligence Technologies and Sustainability	3	M	9	5	125	24	12	89		50%			50%
Practicum	4	E	9	30	750	36	12	702		100%			
Internship	4	E	9	30	750	36	12	510	192	100%			
Special Regulations (Up to 280 characters)													
The Practicum and Internship modules cannot be compensated.													

⁷ Mandatory (M) or elective (E)

⁸ Work-based learning effort is not the number of hours in the workplace. For example, a person might spend 35 hours in the workplace as a trainee and this might involve 7 hours of learning effort.

PG24694 Postgraduate Diploma in Science in AI for Business

Name of Provider:		National College of Ireland												
Programme Title		Postgraduate Diploma in Science in AI for Business												
Award Title		Postgraduate Diploma in Science in AI for Business												
Stage Exit Award Title ³														
Modes of Delivery (FT/PT):		PT												
Teaching and learning modalities		Classroom												
Award Class ⁴	Award NFQ level	Award EQF Level	Stage (1, 2, 3, 4, ..., or Award Stage):	Stage NFQ Level ²	Stage EQF Level ²	Stage (ECTS)	Credit	Date Effective	ISCED Subject code					
Major	9	7	Award	9	7	60		Sep 2022	0619					
Module Title (Up to 70 characters including spaces)	Semester no where applicable. (Semester 1 or Semester2)	Module		Credit Number ⁵	Total Student Effort Module (hours)					Allocation of Marks (from the module assessment strategy)				
		Status ⁹	NFQ Level ¹ where specified	Credit Units	Total Hours	Class (or equiv) Contact Hours	Directed e-learning	Hours of Independent Learning	Work-based learning effort ¹⁰	C.A. %	Supervised Project %	Proctored practical demonstration %	Proctored written exam %	
Foundations of Artificial Intelligence	1	M	9	5	125	36		89		60%			40%	
Data Governance and Ethics	1	M	9	5	125	36		89		40%			60%	
Artificial Intelligence Technologies for Business	1	M	9	10	250	48		202		100%				
Risk and Change Management	2	M	9	5	125	36		89		100%				
Intelligent Agents and Process Automation	2	M	9	5	125	36		89		100%				
Human Centered Artificial Intelligence	2	M	9	10	250	48		202		30%			70%	
Customer Engagement and Artificial Intelligence	3	M	9	10	250	48		202		100%				
Data Analytics for Business	3	M	9	5	125	36		89		100%				
Emerging Artificial Intelligence Technologies and Sustainability	3	M	9	5	125	36		89		50%			50%	
Special Regulations (Up to 280 characters)														
N/A														

⁹ Mandatory (M) or elective (E)

¹⁰ Work-based learning effort is not the number of hours in the workplace. For example, a person might spend 35 hours in the workplace as a trainee and this might involve 7 hours of learning effort.

PG24694 Postgraduate Diploma in Science in AI for Business

Name of Provider:		National College of Ireland											
Programme Title		Postgraduate Diploma in Science in AI for Business											
Award Title		Postgraduate Diploma in Science in AI for Business											
Stage Exit Award Title ³													
Modes of Delivery (FT/PT):		PT											
Teaching and learning modalities		Blended learning											
Award Class ⁴	Award NFQ level	Award EQF Level	Stage (1, 2, 3, 4, ..., or Award Stage):	Stage NFQ Level ²	Stage Level ²	EQF	Stage (ECTS)	Credit	Date Effective	ISCED Subject code			
Major	9	7	Award	9	7		60		Sep 2022	0619			
Module Title (Up to 70 characters including spaces)	Semester no where applicable. (Semester 1 or Semester2)	Module		Credit Number ⁵	Total Student Effort Module (hours)					Allocation of Marks (from the module assessment strategy)			
		Status ¹¹	NFQ Level ¹ where specified	Credit Units	Total Hours	Class Contact Hours (or equi(v))	Directed e-learning	Hours of Independent Learning	Work-based learning effort ¹²	C.A. %	Supervised Project %	Proctored practical demonstration %	Proctored written exam %
Foundations of Artificial Intelligence	1	M	9	5	125	24	12	89		60%			40%
Data Governance and Ethics	1	M	9	5	125	24	12	89		40%			60%
Artificial Intelligence Technologies for Business	1	M	9	10	250	24	24	202		100%			
Risk and Change Management	2	M	9	5	125	24	12	89		100%			
Intelligent Agents and Process Automation	2	M	9	5	125	24	12	89		100%			
Human Centered Artificial Intelligence	2	M	9	10	250	24	24	202		30%			70%
Customer Engagement and Artificial Intelligence	3	M	9	10	250	24	24	202		100%			
Data Analytics for Business	3	M	9	5	125	24	12	89		100%			
Emerging Artificial Intelligence Technologies and Sustainability	3	M	9	5	125	24	12	89		50%			50%
Special Regulations (Up to 280 characters)													
N/A													

¹¹ Mandatory (M) or elective (E)

¹² Work-based learning effort is not the number of hours in the workplace. For example, a person might spend 35 hours in the workplace as a trainee and this might involve 7 hours of learning effort.