ACADEMY

M.Sc. in Artificial Intelligence

MQF Level 7 | 90 ECTS
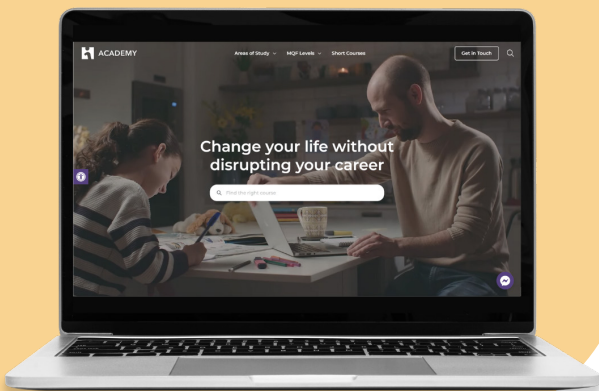
MQF
MALTA QUALIFICATIONS
FRAMEWORK

ACADEMY

ABOUT US

Founded in 2005 as IDEA Leadership and Management Institute, IDEA Academy has since evolved into one of Malta's leading higher education institutions accredited by the Malta Further and Higher Education Authority. We offer a selection of accredited, industry-led programmes in a wide variety of fields, from foundation programmes right up to doctorate.

Our mission is to provide quality, industry-driven education to adult students who are already practitioners and professionals. In doing so, we adopt a student-centric blended approach to learning that is flexible and allows one to balance between personal, professional, and student life.

ALSO AVAILABLE ONLINE

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COURSE DESCRIPTION

Whilst the term Artificial Intelligence (AI) has become something of a buzzword, there is a general lack of understanding across various industries around the world on what AI actually is and how it can help them. This occurs even though there are multiple avenues in which AI can revolutionise the way data is integrated to provide insights enabling well-founded decisions.

The main objective of this programme is to equip managers, decision-makers, solution designers and planners to better understand use cases where AI can be applied, to analyse the need for AI tools in their scenarios, to select the right tools and techniques and effectively use them to solve tasks at hand. Furthermore, you will be able to develop a career as an AI consultant, advising organisations how to explore the potential of a continuously improving concept such as AI in order to effectively meet their business needs.

CAREER PATHS

The possible positions for which this programme aims to prepare you for include, but are not limited to:

- Artificial Intelligence consultant
- Data/ risk/ investment /business analyst
- HR support systems manager
- Compliance (gaming) manager

It will also prepare you to work for any companies wanting to utilise and/or who are using AI in their operations.

Potential employers include industrial sectors, such as: Financial Services, Accounting and Auditing Services, Tax Services, Strategy, Consultation, Digital, Technology and Operations, amongst others.

ENTRY REQUIREMENTS

Candidates who apply for this course must possess one of the following:

- a Level 6 degree related to AI/Computer-Science/Mathematics/Electronics;

OR

- a Level 6 degree not related to AI/Computer Science/Mathematics/Electronics and a minimum of two years' relevant experience;

OR

- a Level 5 diploma or higher diploma and five years' of relevant work experience.

TARGET AUDIENCE

This course is targeted at:
- Industry professionals working in different domains, including Technology, Engineering, Science, IT, Finance, Accountancy, Management, Marketing, Insurance, Banking, Gaming, Healthcare, Medicine, Pharmaceutical, Human Resources, Psychology, Blockchain, Legal, Administration, Policy Making, Digital Art, Archaeology, Architecture, Education and other related areas.
- Recent graduates with degrees in Computer Science, Technology, Marketing, Finance, Economics, Accountancy, Management, HR, Law, Engineering, Science, Medicine, Psychology, Digital Art, Game Development, Archaeology, Architecture or Business.
- Mid-career-break professionals looking for opportunities to return to or change their career.

STRUCTURE & ASSESSMENT

This programme may be followed on a part-time basis. The programme comprises a total of 10 modules. The method of assessment is assignment-based.

The course comprises:
- 6 lectures per module;
- 3-hour lectures;
- 12 hours of guided learning, presentations, comprising synchronous online discussions, tutorials and/or videos;
- Self-study hours comprising research, reading and assignment work.

COST

Reading for the entire Master of Science (M.Sc.) in Artificial Intelligence as presented in this brochure costs €9,775.*

Upon successful completion of this course, students will be eligible for a 70% refund of the cost through the 'Get Qualified' scheme.**

Due to the modular structure of the course, you may also opt to take individual modules as stand-alone. The entry requirements still apply.***

* Prices are applicable to students who already reside in Malta at the time of the application.
** Terms and Conditions apply.
*** For the price of individual modules, please contact the IDEA Academy team.

PROGRAMME OUTLINE

MODULE/UNIT TITLE	COMPULSORY OR ELECTIVE	ECTS
1. Introduction to Artificial Intelligence and Data Science	Compulsory	6 ECTS
2. AI and Professional Ethics	Compulsory	6 ECTS
3. Logical Thinking and Programming with Python and Group Project	Compulsory	6 ECTS
4. Maths for AI	Compulsory	6 ECTS
5. Algorithms	Compulsory	6 ECTS
6. Business Analytics	Compulsory	6 ECTS
7. Research Methods and Advanced Research Topics in AI	Compulsory	6 ECTS
8. Machine Learning	Elective	6 ECTS
9. Knowledge Acquisition, Representation and Management	Elective	6 ECTS
10. Decision Support Systems and Expert Systems	Elective	6 ECTS
11. Probabilistic Modelling & Reasoning and Big Data Analytics	Elective	6 ECTS
12. Medical and Health Informatics	Elective	6 ECTS
13. Dissertation	Compulsory	30 ECTS

You are required to complete all 7 compulsory modules (42 ECTS), and only 3 elective modules out of the proposed 5 (18 ECTS), as well as the Dissertation (30 ECTS) to fulfil the requirements of this Master's Degree.

Total credits: 90