



MCAST

MCAST Masters in Artificial Intelligence for Industry 4.0

MQF Level 7 - 90 ECTS

The Masters in Artificial Intelligence for Industry 4.0 programme is an effective means of opening up new career possibilities in a broad range of industries. Graduates of this Master programme will have the knowledge and skills to solve complex social, economic and technical problems within the context of artificial intelligence technologies. This Master programme will deliver theoretical and practical knowledge in specific areas to establish the academic, engineering and skill proficiency level required and expected by a professional to a productive role at a global level in the development of AI in Industry 4.0.

The Masters in Artificial Intelligence for Industry 4.0 programme provides fundamental skills in a variety of advanced areas such as Machine Learning, Neural Networks and Classifiers, Robotics and Computer Vision, Deep Learning and Predictive Analytics. Furthermore, it delves into the application of these technologies across a variety of key industries such as Manufacturing, Community Services, Information Systems, Business Services and Research. The programme delivers innovative and well-founded qualification and applied skills for the next generation of Industry 4.0 designers and software architects respecting and integrating relevant aspects of innovation management and entrepreneurship. Artificial Intelligence for Industry 4.0 is a composite discipline with its core focus on the thorough understanding, design and application of technologies to bring competitive advantage in industry. This programme is conceptualised as a compact and yet comprehensive and practical body of education and training material necessary to prepare a graduate learner for the cutting-edge Artificial Intelligence and Industry 4.0 related job openings in the labour market of the European Union, with specific attention to the Malta's high tech labour market. Particular units of the programme are dedicated to the understanding of underlying technologies and the application of AI across a wide variety of industries. Facing the aggressive expansion of global activities adopting Industry 4.0, Malta's high tech labour force must be ready for the future developments that may take place faster than anticipated.

Programme Learning Outcomes

Upon successful completion of this Masters Programme, the learner will be able to:

- Appraise the technologies that constitute AI;
- Identify and implement appropriate AI technology to address specific industry challenges;
- Evaluate proposals involving AI technologies;
- Ensure increased operational efficiency, lower costs, improved customer experience and enhance competitive advantage.