Programme Specification

Artificial Intelligence [UWE Online]

Version: 2025-26, v1.0, Validated

Contents

Section 1: Key Programme Details

Part A: Programme Information

Programme title: Artificial Intelligence [UWE Online]

Highest award: MSc Artificial Intelligence

Interim award: PGCert Artificial Intelligence

Interim award: PGDip Artificial Intelligence

Awarding institution: UWE Bristol

Teaching institutions: UWE Bristol

Study abroad: No

Year abroad: No

Sandwich year: No

Credit recognition: No

School responsible for the programme: CATE School of Computing and Creative Technologies, College of Arts, Technology and Environment

Professional, statutory or regulatory bodies: Not applicable

Modes of delivery: Distance without attendance

Entry requirements: For current entry requirements, see the UWE public website.

For implementation from: 01 January 2026

Programme code: I40A62

Section 2: Programme Overview, Aims and Learning Outcomes

Part A: Programme Overview, Aims and Learning Outcomes

Overview: Artificial Intelligence (AI) is the study and application of computational methods that enable machines to perform tasks typically requiring human intelligence—either autonomously or in collaboration with people. As a multidisciplinary field, AI draws from computer science, data science, philosophy, and psychology, integrating both theoretical foundations and practical skills such as programming, data handling, and statistical analysis.

UWE's MSc Artificial Intelligence (Online) is designed to equip you with the essential knowledge and skills to design and implement AI-based solutions for real-world challenges.

Throughout the course, you will explore a wide range of AI paradigms, algorithms, and tools. You will begin with foundational topics such as AI for Search and Optimisation and Statistical Inference, Machine Learning, Neural Networks, and Big Data. You will also examine applied domains through modules such as Business Intelligence and Data Visualisation, Knowledge-based and Hybrid Systems, and Machine Learning for Language and Vision. Each module includes practical components that allow you to apply theoretical concepts and develop confidence in evaluating the performance and suitability of AI systems in diverse contexts.

Ethical, technical, and domain-specific considerations are integrated across the programme to help you understand the wider impact and responsible use of AI technologies. The course culminates in an individual MSc Project, where you will synthesise your learning by independently designing and developing an AI solution that reflects the complexities and constraints of real-world scenarios.

By the end of the programme, you will have developed strong analytical, technical, and critical thinking skills—well-suited to AI roles in academia, industry, or government.

Features of the programme: Demonstrate the ability to operate effectively in a professional context by identifying and applying a range of appropriate Artificial Intelligence techniques to address complex challenges.

Create effective solutions to problems that reflect the complexity and ambiguity of real-world scenarios, drawing on a deep understanding of AI principles, tools, and methodologies.

Educational Aims: To prepare graduates for senior and leadership roles in Artificial Intelligence (AI) and related fields, with the capability to shape and enhance organisational strategies, operations, and innovation through AI and Machine Learning.

To develop resourceful, creative, and independent thinkers who can adapt to evolving technologies and respond effectively to emerging challenges and opportunities in AI, Machine Learning (ML), and intelligent systems.

To build confidence and competence in working with algorithms and data—including language and image data—while fostering a high level of data literacy across technical, ethical, and contextual dimensions.

To empower graduates to design and implement AI/ML-driven interventions that positively impact organisational efficiency, productivity, and decision-making.

To enable graduates to contribute meaningfully to addressing complex societal and ethical challenges—such as privacy, fairness, accountability, and trust—associated with the development and deployment of AI systems.

Programme Learning Outcomes:
On successful completion of this programme graduates will achieve the following learning outcomes.

Programme Learning Outcomes

PO1.   Construct questions and hypotheses relating to organisational objectives and identify experiments or gather data bearing on these

PO2.   Apply the basic paradigms and methods of contemporary AI to develop descriptive, predictive and prescriptive models and analyses adhering to good statistical practice

PO3.   Critically evaluate platforms, tools, and frameworks to develop and test AI solutions for organisational challenges

PO4.   Design, prototype and develop AI-based solutions using good coding practices and a range of contemporary toolkits together with data transformation and integration of diverse sources

PO5.   Continually evaluate and improve models and systems to ensure they meet requirements and objectives

PO6.   Take account of legal requirements, and ethical and societal issues through highly informed and responsible practice

PO7.   Exhibit leadership, a results-driven mindset, and effective communication with diverse stakeholders

Assessment strategy: The MSc Artificial Intelligence (online) programme employs a diverse and practice-focused assessment strategy that mirrors real-world challenges. Students engage in tasks such as practical projects, coding assignments, analytical reports, and presentations that develop their technical skills, problem-solving ability, and professional competence.

Assessments encourage students to frame complex problems, apply appropriate tools and methodologies, and evaluate the effectiveness of their solutions. Ethical, legal, and societal issues are integrated into coursework, promoting responsible AI practice. Communication skills are also developed through stakeholder-focused reporting and presentations.

Formative feedback supports student development throughout, while summative assessments ensure alignment with high academic and industry standards. The programme concludes with a major independent project, allowing students to demonstrate their capabilities by addressing a significant AI-related challenge.

Student support: We prioritise student success, offering dedicated student support to address any concerns promptly. This support covers student onboarding and preparation activities, general pastoral care and the in-depth academic guidance and support needed for online students to succeed.

Throughout a student's journey, we emphasise the importance of academic and pastoral support. Academic inquiries will be directed to UWE support staff, ensuring that students receive expert guidance during the duration of their studies. Meanwhile, our student support team is here to assist with any pastoral non-academic concerns, providing assistance through whatever channel the student prefers to use, whether app, email, or phone.

Using a ticketing system in our student information management system, the student support team efficiently manages inquiries, ensuring no issue goes unresolved. The team is equipped to handle a wide range of student support needs, from technical difficulties to time management and personal challenges.

We understand that timely assistance is crucial, which is why our support staff monitor key engagement metrics and proactively outreach to any at risk student, to ensure swift responses and effective resolutions. Every student interaction is logged in the student information management system, ensuring a seamless support experience.

Part B: Programme Structure

Year 1
Students must take 90 credits from the modules in Year 1.

The order in which students take modules depends on their intake month.

Year 1 Compulsory Modules (Year 1 and Year 2)
Students must take 90 credits from the Compulsory Modules (Year 1 and Year 2) in Year 1. Students must take the remaining 30 credits in Year 2.

The order in which students take modules depends on their intake month.

Module Code	Module Title	Credit
UFCE8W-15-M	Statistical Inference 2025-26	15

UFCEPP-15-M	Knowledge-based and Hybrid Systems 2025-26	15
UFCEPR-15-M	Artificial Neural Network 2025-26	15
UFCEPQ-15-M	Foundations of Machine Learning 2025-26	15
UFCE9B-15-M	Business Intelligence and Data Visualisation 2025-26	15
UFCEPS-15-M	AI for Search and Optimisation 2025-26	15
UFCE9M-15-M	Big Data 2025-26	15
UFCEPT-15-M	Machine Learning for Language and Vision 2025-26	15

Year 2
Students must take 90 credits from the modules in Compulsory Modules comprising the remaining two 15 credit modules not taken in Year 1 plus the 60 credit CCT Masters Project module.

Year 2 Compulsory Modules
Students must take 90 credits from the modules in Compulsory Modules comprising the remaining two 15 credit modules not taken in Year 1 plus the 60 credit CCT Masters Project.

Module Code	Module Title	Credit
UFCE9T-60-M	CCT Masters Project 2026-27	60

Part C: Higher Education Achievement Record (HEAR) Synopsis

Graduates will exhibit analytical skills in problem framing and project design, data manipulation and retrieval, statistics and coding for developing AI-based solutions for different types of problems such as optimisation, and building predictive models from data. They will be able to develop and evaluate models, use established tools and methods, and effectively communicate their results to stakeholders. They will be able to work in a multifunctional team and manage a full development lifecycle.

Part D: External Reference Points and Benchmarks

The MSc Artificial Intelligence (Online) programme is aligned with the QAA Subject Benchmark Statement for Master's Degrees in Computing (2022)

https://www.qaa.ac.uk/docs/qaa/sbs/sbs-computing-22.pdf

, ensuring academic rigour, relevance, and consistency in curriculum design. The benchmark shaped the focus on advanced computational methods, ethical AI, and research-informed practice. A key challenge was balancing theoretical depth with applied learning, which was addressed through practical projects and real-world datasets. Programme ensures graduates are well-equipped with critical, technical, and ethical competencies.

Part E: Regulations

Approved to University Regulations and Procedures:

https://www.uwe.ac.uk/study/academic-information/regulations-and-procedures