Curriculum

COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE
Pre-Core Courses (6 Credit Hours) for Business Students					
MAI202PC	Introductory Artificial Intelligence	MAI201PC	Programming for AI		
Core Courses: 24 Credit Hours					
MAI502	Advanced Research Communication	MAI503	Advanced Analysis and Computing	MAI540	Advanced AI and Machine Learning
MAI621	Computer Vision and Image Processing	MAI590	Advanced Deep Learning Applications	MAI691	Thesis in Artificial Intelligence
Major Electives: 6 Credit Hours					
ME1	Major Elective I	ME2	Major Elective II		
Major Electives Themes					
MAI623	Advanced AI-Powered Mobile Application Development	MAI642	Artificial Intelligence in Medicine	MAI675	Autonomous Vehicles: Drones and Self-Driving Cars
MAI633	Advanced Internet of Intelligent Things	ITE504	Data Science and Big Data Analytics	MAI605	Artificial Intelligence Ethics and the Society
MAI606	Artificial Intelligence in Education	MAI635	Special Topics in Artificial Intelligence		

MASTER OF
SCIENCE IN
ARTIFICIAL
INTELLIGENCE

جامعة أبوظبي
Abu Dhabi University
College of Engineering

Program Overview

The Master of Science in Artifical Intelligence program equips you with cutting-edge expertise in machine learning, deep learning, and AI-driven innovation to tackle real-world challenges.

- **Flexible Learning:** Complete up to 20% of the program online perfect for working professionals. Available in Abu Dhabi, Al Ain, and Dubai.
- **Industry-Relevant Skills:** Master machine learning, deep learning, computer vision, NLP, and AI ethics.
- **Leadership & Research Focus:** Gain critical thinking, problem-solving, and innovation skills with guidance from world-renowned AI experts.
- **Accelerated 4+1 Track:** Earn your MSc in just one extra year.

This program is designed for the next generation of AI leaders, whether you aim to develop intelligent systems, optimize decision-making, or drive AI adoption in various sectors.

Program Mission

The Artificial Intelligence program equips students with advanced knowledge and skills to develop, implement, and optimize AI solutions for complex and interdisciplinary challenges. Students will receive specialized training in cutting-edge areas such as machine learning, natural language processing, and intelligent systems, fostering innovation and research excellence to address the needs of both local and global communities.

Student's Testimonial

Maha Yaghi - graduated from Abu Dhabi University with a BSc in Computer Engineering in 2019

Doing my Master's in Artificial Intelligence at Abu Dhabi University is a truly impactful experience. The program dives into key areas like deep learning, machine learning, NLP, and generative AI while offering plenty of opportunities to work on real-world and industry projects. From building AI-powered applications to experimenting with self-driving car technologies and robotics, the hands-on approach makes learning practical and engaging. It's an excellent environment for developing the advanced technical expertise and problem-solving mindset needed to thrive in AI and be a leader in the future.

Program Educational Objectives (PEOs)

The objective of the program is to produce Artificial Intelligence Engineers who will:

1. Demonstrate their success as artificial intelligence engineers with a good set of technical, problem solving, and leadership accomplishments.
2. Participate in life-long learning activities such as training, continuing education, or graduate studies.
3. Contribute to the development and the growth of local and global communities and uphold their ethical, social, and professional responsibilities.

Career Prospects

1. AI Specialists in industries such as healthcare, education, finance, and government, driving the development and deployment of intelligent solutions
2. Machine Learning Engineers who design and optimize algorithms for prediction, automation, and personalization
3. Data Scientists who apply statistical and AI techniques to extract actionable insights from complex data
4. NLP Experts developing intelligent language-based systems, including chatbots, language translation tools, and sentiment analysis platforms
5. AI Product Managers who lead the design and launch of AI-powered products and ensure alignment with user needs and ethical standards
6. AI Consultants advising organizations on how to adopt, scale, and govern AI technologies effectively
7. Research Scientists in academic or industrial labs contributing to breakthroughs in AI, deep learning, and human-AI interaction
8. AI Policy Analysts shaping national and organizational strategies for the ethical and impactful use of artificial intelligence
9. AI Trainers and Specialists working with enterprises to deploy and fine-tune models for industry-specific applications
10. Technical Solution Managers supporting enterprise clients with AI-driven technologies offered by companies like Google, Microsoft, and Amazon
11. PhD Candidates or academic professionals pursuing advanced research and contributing to the global AI knowledge base