



IBU International
Business
University

MSc in Applied Artificial Intelligence with Industrial Innovation



MSc in Applied Artificial Intelligence with **Industrial Innovation**

(4 Terms – 16 Months | 42 Credit Hours with Capstone Project Work)

Innovate industrial systems with artificial intelligence through a specialization built for real-world impact.

This program equips you with in-depth knowledge of AI technologies and automation strategies that are transforming production, logistics, and services across industries.

You develop the skill set to design, evaluate, and deploy intelligent systems that improve operational performance and sustainability.

Guided by industry experts, you apply your learning through hands-on projects and a capstone experience—graduating ready to lead the digital transformation in manufacturing and beyond.

Program Highlights	Program Length 4 Terms – 16 Months	Credit Hours 42 (including Capstone Project)
	Delivery In-person & Hybrid	Intakes September, January, May

Why Choose This Specialization?

- Learn to integrate **AI, robotics, and automation** within real-world industrial settings.
- Gain practical experience in **industrial AI applications**, automation, and service innovation.
- Understand the ethical, social, and environmental implications of AI-driven transformation.
- Strengthen both **technical and leadership skills** for the future of smart manufacturing.

Career Outcomes

Automation Engineer

Industrial Innovation Specialist

Robotics and AI Integration Manager

Operations Consultant

Curriculum Overview

Core Courses

- Fundamentals of Artificial Intelligence
- Machine Learning and Deep Learning (ML/DL)
- Data Science and Data Mining
- Applications of AI in Services
- Industrial Automation and Sustainability
- Robotics for Service Innovation
- Emerging AI Industries and Ventures
- Artificial Intelligence and Cybersecurity
- Applied Research Methods
- Capstone Project

M-Management, S-Specializations, RM-Research Methodology, C-Communication, P- Professionalism, A-Application, L-Limitations

Curriculum	Course	Credit	M	S	RM	C	P	A	L	
Stage 1	Semester 1									
	Fundamentals of Artificial Intelligence	3	✓				✓		✓	
	Machine Learning and Deep Learning	3	✓		✓			✓		
	Data Science and Data Mining Techniques	3	✓		✓	✓				
	Human- Computer Interaction Design	3	✓			✓		✓		
Stage 2	Semester 2									
	Applications of Artificial Intelligence in Services	3			✓	✓		✓	✓	
	Emerging Artificial Intelligence Industries and Ventures	3		✓		✓	✓			
	Industrial Automation, Manufacturing Innovation, and Sustainability	3		✓				✓		
	Robotics for Service Innovation	3		✓				✓		
Stage 3* Choose 2 out of 3 ** Compulsory	Semester 3									
	Information Systems and Digital Transformation *	3	✓				✓	✓	✓	
	Project Management: Social- Technical Approach *	3	✓			✓	✓	✓		
	Advanced Business Analytics *		✓			✓	✓	✓		
	Artificial Intelligence and Cybersecurity **	3	✓	✓		✓	✓	✓	✓	
	Applied Research Methods **	3		✓	✓	✓	✓	✓	✓	
Stage 4	Semester 4									
	Capstone Project (Artificial Intelligence and Industrial Innovation)	6		✓	✓	✓	✓	✓	✓	

Student Journey



Mastering Foundations (Term 1)

AI fundamentals, ML/DL, data mining, and HCI



Applying to Industry (Term 2)

AI in services, industrial automation, robotics, and emerging AI ventures



Driving Change (Term 3)

Digital transformation, project management, analytics, cybersecurity, and research methods



Capstone Impact (Term 4)

Deliver a real-world industrial AI project with measurable outcomes