

Bachelor of Science (Honours) in Applied Artificial Intelligence

(N/0611/6/0107)/ 01/30 (MQA/PSA 18303)

The Bachelor of Science (Honours) in Applied Artificial Intelligence, BScAAI is a 3-year programme designed to equip students with the knowledge and skills to develop AI-powered solutions that drive innovation across industries. This programme focuses on the application of AI in automation, data intelligence, and smart decision-making systems, preparing graduates to lead the AI revolution in various sectors.

BScAAI uniquely combines AI and engineering principles with core areas such as IoT, cloud computing, digital system design, machine vision, and embedded AI solutions, ensuring students gain practical knowledge in designing intelligent, scalable, and high-performance AI-driven systems. With hands-on laboratory-based courses, real-world industrial collaborations, and applied research projects, students will develop technical skills required for the next generation of AI engineers, robotics specialists, and intelligent systems developers.

With a strong emphasis on real-time AI deployment, optimization of AI models for hardware implementation, and the integration of AI in edge computing, industrial automation, and cyber-physical systems, graduates will be well-prepared for careers as AI Engineers, Embedded AI Developers, Robotics and Perception Specialists, IoT and AI Solutions Architects, and Intelligent Systems Designers.

Aligned with MMU's strategic direction, this programme is designed to bridge AI research with engineering applications, ensuring that graduates contribute to solving real-world problems in sectors such as smart cities, healthcare, autonomous systems, precision agriculture, and advanced robotics. By integrating AI with engineering fundamentals, this programme equips students with the ability to develop sustainable, efficient, and transformative AI technologies for the future.

Career Prospects: AI Specialist, Machine Learning Developer, Embedded AI Developer, Robotics and Perception Specialist, IoT and AI Solutions Developer, Data Science Practitioner, Computer Vision Specialist, AI Solutions Consultant

PROGRAMME STRUCTURE

Year 1	Year 2	Year 3	
CORE			
<ul style="list-style-type: none"> Fundamentals of Computer Systems Data Communications and Networking Artificial Intelligence Fundamentals Fundamentals of Computer Science Database Systems Digital Fabrication & Prototyping Data Acquisition, Engineering and Visualization AI Governance & Ethics Probability & Statistics 	<ul style="list-style-type: none"> Applied Electronics & Practical Techniques Software Engineering Machine Learning Concepts and Technologies Mathematics for AI Algorithms and Data Structures for AI Bespoke Industrial Studio Data Analytics Fundamentals Embedded Systems for AI Machine Vision and Image Processing Project Management for AI Applications BYOC 1 BYOC 2 	<ul style="list-style-type: none"> Natural Language Processing Robotics & Perception Deep Learning and Generative AI Technology Cloud Computing Technology AI in Autonomous Systems IoT Systems and Applications Industrial Training Project I Project II BYOC 3 	
BYOC Electives			
(March/Apr) <ul style="list-style-type: none"> Fundamentals of Marketing Digital Transformation Strategy Personal Finance Radio Network Planning Towards 5G Media Anthropology Project Management Motion Capture Media Law Corporate Strategy 	<ul style="list-style-type: none"> Social Media Strategies Introductory Mobile Application Development Basic Filmmaking Fundamental of Wireless Communications Radio Network Planning Towards 5G 	(Oct/Nov) <ul style="list-style-type: none"> Design Thinking for Strategic Communication Corporate Communication Suspenseful Filmmaking Communications Networks Introductory Data Science Introductory Data Visualization 	
<ul style="list-style-type: none"> Visual and Corporate Identity Information Visualization Principal of Finance Fundamental of Marketing Communications Networks 			
UNIVERSITY SUBJECTS AND MATA PELAJARAN UMUM (MPU)			
<ul style="list-style-type: none"> Character Building Program: Character Building and Sustainable Society Fundamentals of Digital Competence for Programmers 	MPU courses: U1 – Falsafah dan Isu Semasa U1 – Penghayatan Etika dan Peradaban Isu Semasa (local students)/ Bahasa Melayu Komunikasi 2 (international students)	U2 - Bahasa Kebangsaan A / Foreign Language U3- Integrity and Leadership	U4 - Co-Curriculum

Note: The above programme structure serves as a guide. Courses may differ according to intakes.