Admissions, Programme Duration & How to Apply

Entry Requirements

- A Bachelor's degree from an accredited institution (Minimum Second Class Lower or equivalent)
- Preference for applicants with backgrounds in Engineering, Computer Science, Robotics, AI, or related disciplines
- Applicants with relevant industry experience may be considered
- Applicants from other disciplines may be considered on a case-by-case basis

Programme Duration

- **Full-time: 1.5 Years**
- Includes **MS Project / Capstone**
- Hands-on laboratory and simulation-based learning



ACADEMIC CITY UNIVERSITY

MSc Robotics Engineering

Build Intelligent Systems. Shape the Future.

Fuel Your Ambition
Apply Now

#AskACity

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About the Programme & What Makes It Unique

About the Programme

Academic City's MSc Robotics Engineering programme equips students with advanced technical and practical skills in robotics, automation, artificial intelligence, computer vision, embedded systems, and autonomous technologies.

The programme combines engineering theory with hands-on, project-based learning to prepare graduates to design intelligent systems for real-world industrial and societal applications.

What Makes It Unique:

- **AI & Robotics Integration:** Learn robotics alongside machine learning, autonomous systems, and intelligent control.
- **Hands-On Engineering:** Work with robotics simulations, sensors, embedded systems, and automation platforms.
- **Industry 5.0 Focus:** Build solutions for manufacturing, healthcare, agriculture, drones, and smart systems.
- **Full-Stack Robotics Training:** Gain expertise in both robotics hardware and intelligent software systems.
- **Project-Based Learning:** Develop prototypes and real-world robotics applications using modern engineering tools.
- **Innovation & Entrepreneurship:** Create robotics solutions for African and global challenges.

Curriculum Overview

Semester 1

- Foundations of Robotics
- Robot Autonomy
- Robot Mechanics & Kinematics
- Sensors & Perception Systems
- Software for Robotics
- Research Methods

Semester 2

- Robot Dynamics & Control
- Machine Learning
- AI for Robotics
- Computer Vision
- Deep Learning
- Mechatronics for Robotics

Semester 3

- MS Project / Capstone

Electives

- RE5232 — Advanced Robotics Applications
- RE5234 — Rehabilitation Robotics
- RE5236 — Computer Graphics and Robotics Simulation

Key Pathways

- **Robotics Engineer:** Design intelligent robotic systems and automation solutions.
- **AI Systems Engineer:** Develop machine learning and autonomous technologies.
- **Automation Engineer:** Build smart industrial and manufacturing systems.
- **Computer Vision Engineer:** Develop intelligent perception and navigation systems.
- **Embedded Systems Engineer:** Create hardware-integrated robotics solutions.
- **Robotics Entrepreneur:** Launch innovative robotics and automation ventures.

Top Industries

- Industrial Automation & Manufacturing
- Artificial Intelligence & Machine Learning
- Healthcare & Medical Robotics
- Agriculture Technology
- Autonomous Vehicles & Drones
- Smart Infrastructure & IoT
- Research & Development
- Robotics Startups & Innovation Labs

