



PROGRAMME DESCRIPTION

Bachelor of Mechatronics Engineering Technology with Honours programme is ETAC accredited and registered at MQA. The duration of full-time study generally takes 4 years to complete. Students are required to complete 142 credit hours of courses that includes Engineering Technology core, Humanities, Technopreneur, Machine Learning, Artificial Intelligence Final Year Project, and Industrial Training. To educate graduates for the innovative design solutions that will be needed of them, the degree takes a systems approach, examining the entire system and breaking it down into subsystems and their constituent components. Graduate from the program can find their career path in mechatronics approach in production and manufacturing, holistic problem solving in a mixed discipline of engineering, simulation and analysis of digital manufacturing and emerging technology in production planning and manufacturing automation.

Provisional Accreditation by Engineering Technology Accreditation Council (ETAC).



PROGRAMME AIM

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

Develop Product and applications in the field of Automation and Mechatronics and be able to use Engineering tools that will Enhance their Productivity.

Capable of communicating and managing effectively in diverse areas of Mechatronics Engineering.

Practicing professional ethics, life-long learning, and sustainable development for the betterment of society.

PROGRAMME OUTCOMES (PO)

The programme Bachelor of Mechatronics Engineering Technology with Honours follows the 12 ETAC domains to produce graduates who can:

Knowledge: Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialisation to defined and applied engineering procedures, processes, systems or methodologies in the field of Mechatronics engineering technology.

Problem analysis: Identify, formulate, research literature and analyse broadly-defined engineering problems reaching substantiated conclusions using analytical tools appropriate to Mechatronics engineering technology.

Design/ development of solutions: Design solutions for broadly-defined mechatronics engineering technology problems and contribute to the design of systems, components or processes to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

Investigation: Conduct investigations of broadly-defined mechatronics engineering technology problems; locate, search and select relevant data from codes, data bases and literature, design and conduct experiments to provide valid conclusions;

Modern Tool Usage: Select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to broadly-defined engineering problems, with an understanding of the limitations.

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The Engineer and Society: Demonstrate understanding of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to mechatronics engineering technology practice and solutions to broadly-defined engineering problems.

Environment and Sustainability: Understand the impact of mechatronics engineering technology solutions of broadly-defined engineering problems in societal and environmental context and demonstrate knowledge of and need for sustainable development.

Ethics: Understand and commit to professional ethics and responsibilities and norms of engineering technology practice.

Individual and Teamwork: Function effectively as an individual, and as a member or leader in diverse technical teams.

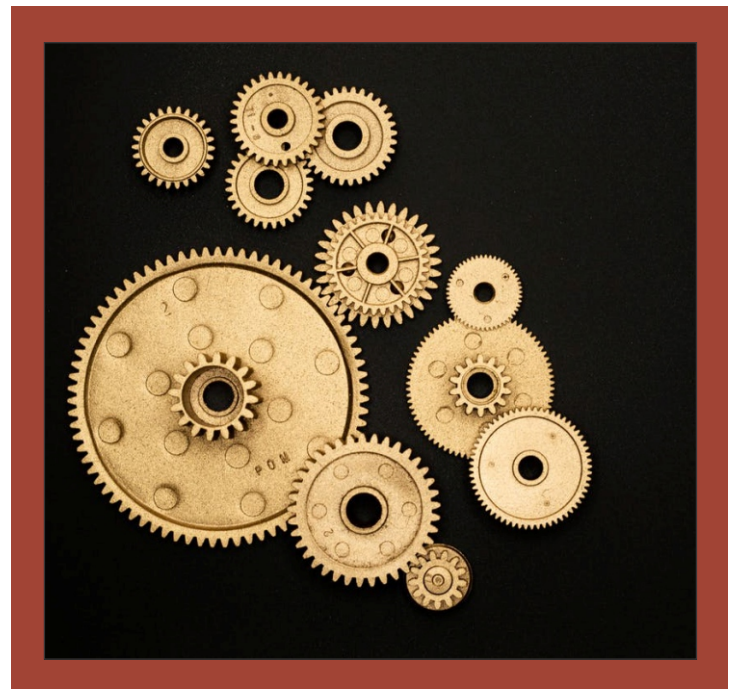
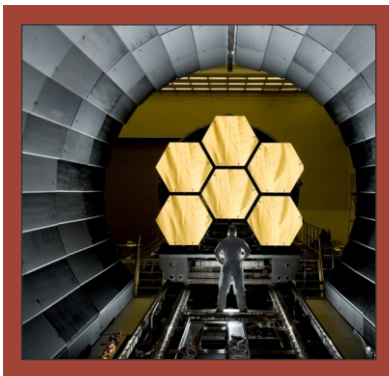
CAREER OPPORTUNITIES

Students who obtain a Bachelor of Mechatronics Engineering Technology with Honours will have the knowledge and abilities needed to occupy a variety of career titles that offer well and are in high demand. The following is a list of the most common job titles held by persons with a mechatronics degree:

- Mechatronics Engineer
- Robotics Engineer
- Automation Engineer
- Mechanical Engineer
- Electronics Engineer
- Controls Engineer
- Electromechanical Engineer

PROGRAMME DURATION

Duration : 48 Months.



INTAKE AND ENTRY REQUIREMENTS

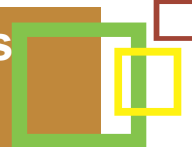
January, July, October

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- i. Passed Sijil Tinggi Persekolahan Malaysia or equivalent with a minimum of a full pass or grade C (CGPA 2.0) in Mathematics and one (1) Science-related subject and pass in Sijil Pelajaran Malaysia or equivalent with at least a pass in English; or
- ii. Passed Diploma in Engineering / Engineering Technology (Level 4 Malaysian Qualifications Framework, MQF) in relevant areas of the PPT that are recognized by the government of Malaysia or equivalent with minimum CGPA 2.0.

For international students, a Test of English as a Foreign Language (TOEFL) score of 500 or an International English Language Testing System (IELTS) score of 5.0 or equivalent is required. If the student does not meet this requirement, the PPT offers proficiency courses in English to ensure student mastery is sufficient to meet the program requirements. This is done through the evaluation process.



LIST OF COURSE/MODULE OFFERED IN THE PROGRAMME

Sl. No.	Subject Name
1.	Engineering Mathematics 1
2.	Computer Programming
3.	Electrical Circuit Analysis
4.	English
Elective (Choose any one module from the following):	
5.	Islamic Civilization and Asian Civilization
6.	Malay Language Communication 3
7.	Engineering Mathematics 2
8.	Electronic Devices 1
9.	Engineering Materials
10.	Technical Drawing and CAD
11.	Fluid Mechanics
Elective (Choose any one module from the following):	
12.	Ethnic Relations
13.	Malaysian Studies 3
14.	Electronic Devices 2
15.	Principles of Instrumentation and Measurement
16.	Dynamics
17.	Signal and Systems
18.	Sensors and Transducer
19.	Electrical Machines and Controls
20.	Engineering Mathematics 3
21.	Machine Design
22.	Microcontroller Technology
23.	Leadership Skills and Human Relations
24.	Basic Engineering Metrology
25.	Introduction to Control System
26.	Mechanics of Machines
27.	Manufacturing Process (Basic Metal Workshop)
28.	Digital Systems
29.	Basic Turning and Milling

Sl. No.	Subject Name
30.	Malaysian Government and Public Policy
31.	Engineer in Society
32.	PLC and Automation
33.	Pneumatics and Hydraulic Technology
34.	Thermodynamics and Heat Transfer
35.	Integrated Design Project
36.	Mechatronic System Design
37.	Control System Engineering
38.	Industrial Robotics
39.	Research Methodology
40.	Actuators and Drives
41.	Final Year Project I
42.	Electromagnetic Field Theory
43.	Community Service
44.	Elective I
	Internet of Things
	Digital Control System
	Vibration Analysis
	Machine Learning
45.	Digital Technopreneur
46.	Robotic Control
47.	Elective II
	Data Communication and Networking
	Embedded System Design
	Advanced Manufacturing System
	Autonomous Robot
48.	Final Year Project II
49.	Elective III
	Machine Vision
	Computer Aided Design and Manufacturing (CAD/CAM)
	Artificial Intelligence
	Swarming Robotic
50.	Industrial Training

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