

Services & Facilities

Facilities

- Library
- Computer Labs
- State-of-the-Art Science Labs
- Multidisciplinary Medical Labs
- Anatomy Lab
- Anatomy & Pathology Resource Centre
- Pharmacy Labs
- Clinical Skills Lab
- Cafeteria
- Student Lounge
- Bookstore
- Music Room
- Multidisciplinary Laboratories @ Faculty of Medicine
- Fine Dining Restaurant
- Data Ecosystem Laboratory of Technology and Applications
- QIU Sustainable Agri-research
- Commercial Kitchen

Hostel Accommodation

QIU's hostels provide accommodation for students who yearn for the experience of independent life in a secure environment. Nestled in the lush greenery of the Kinta Valley, our condominium units give students the option of staying in a single or twin-sharing room, with 4 or 6 occupants to a unit.

Transportation is provided to shuttle students between the residences and the city campus. Security checkpoints are installed outside each unit, as part of the 24-hour security surveillance system operated by QIU-appointed personnel.

- 24 Hours Security
- Free Internet & WIFI
- Outdoor Playground & Swimming Pool



+605 2490500

Quest International University Perak (DU021(A))
No. 227, Plaza Teh Teng Seng (Level 2), Jalan Raja Permaisuri Bainun,
30250 Ipoh, Perak Darul Ridzuan, Malaysia.
Tel: +605 249 0500 Fax: +605 249 0503 Email: enquiries@qiup.edu.my

www.qiup.edu.my

Quest International University Perak

@qiup_edu



QUEST
INTERNATIONAL
UNIVERSITY

Bachelor of Mechatronics Engineering with Honours

JPT/BPP(MQA/PA6966)08/20



Bachelor of Mechatronics Engineering with Honours

JPT/BPP(MQA/PA6966)08/20

Mechatronics is a multidisciplinary field of engineering that integrates mechanics, electronics, robotics, control and automation. This programme is designed to expose students to the principles and practice of mechatronics.

The syllabus focuses mainly on the delivery of principles and practices that integrate disciplines in mechanical and electronic engineering, as well as computing.

Students will also acquire work skills and develop a broad understanding and knowledge of the engineering industry. Compulsory industrial training is incorporated into the syllabus to make the graduates industry-relevant upon completion of their degree programme.

Upon completion of the programme, graduates can work as engineers in manufacturing, process, automation and control industry, robotic industry and in research and development organisations.



Intakes:

April, July, September / October



Duration:

Full-time : 4 years

Part-time : 6 years



Mode of Study:

Full-time and Part-time



Assessment Method:

Continuous assessments and final examination. The continuous assessment component comprises tests, quizzes, a mid-semester examination, laboratory reports, projects and assignments.

Introduction



Minimum Entry Requirements

Malaysian University English Test (MUET)	Band 2
Sijil Tinggi Pelajaran Malaysia (STPM)	Pass STPM or equivalent with a minimum of Grade C (CGPA 2.00) in three (3) subjects including Mathematics and Physics
Unified Examination Certificate (UEC) or equivalent	Pass with a minimum grade B in five (5) subjects, including Mathematics and Physics
Diploma in Engineering / Engineering Technology (or equivalent)	Pass with minimum CGPA 2.00 out of 4.00
Foundation (related field)	Pass with minimum CGPA 2.00 out of 4.00
Other Qualifications	Other equivalent qualifications recognised by the Government of Malaysia
English Proficiency for International Student	TOEFL PBT 410 / IBT 34 IELTS 5.0

Programme Content

The following courses are offered in the **Bachelor of Mechatronics Engineering with Honours (JPT/BPP(MQA/PA6966)08/20)** programme:

Matapelajaran Pengajian Umum (MPU) Courses

Local

- TITAS
- Hubungan Etnik
- Communication Skills
- Media and Community
- Community Service

International

- Bahasa Melayu Kebangsaan 2
- Malaysian Studies 3
- Bahasa Kebangsaan A
- Media and Community
- Community Service

University Courses

- English for Academic Purposes
- Devices, Networks and Applications
- Disciplined Entrepreneurship
- Design Thinking
- Co-curricular Activities

Compulsory Courses

- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Mathematics 3
- Computer Programming
- Object Oriented Programming
- Circuit Theory
- Electronic Devices and Circuits
- Digital Logic Design
- Electronic Measurements & Instrumentation
- Electronic Circuit Analysis
- Microprocessor Architecture & Programming
- Integrated Circuit Applications
- Machine Vision
- Electrical Machines
- Power Electronics and Drives
- Engineering Mechanics for Mechatronics systems
- Engineering Metrology
- Fundamental of Thermodynamics
- Strength of Material
- Mechanics of Machines
- Quality and Reliability Engineering
- Engineering Drawing and CAD
- Design of Machine Elements
- Design of Mechatronics System
- Sensors and Actuators
- Control Systems
- PLC & Automation
- Applied Hydraulics and Pneumatics
- Fluid Power System and Controls
- Robotic Engineering
- Micro Electro Mechanical System
- Digital Signal Processing
- Engineers in Society
- Engineering Economics & Project Management
- Entrepreneurship for Engineers
- Industrial Training
- Integrated Design Project
- Research Project-Phase 1
- Research Project-Phase 2

Why Choose QIU?



Industry-based curriculum incorporating design aspects



Bridging skills gap with a **revolutionary industry-supported programme**



Experiential learning with **16-24 weeks** of industrial attachment



Experienced lecturers registered with the Board of Engineers (BEM)



Programmes **aligned to IR 4.0** prospects as well as education and industry certification standards