

## Facilities

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

## Student Services

### Student and Career Counselling

At QIU, our counsellors are available to help students with academic and/or personal concerns. Students at QIU will be given personalised attention to assist them in meeting their academic needs.

### Assistance with Accommodation

QIU will help students with their accommodation arrangements, ensuring that they can enjoy a fun, enjoyable university experience.

### Mentorship Programmes

At QIU, students are not just taught academic programmes but are mentored to excel in their future careers and become responsible citizens who will contribute to the betterment of society.

## Hostel

## Accommodation

QIU's hostels provide accommodation for students who yearn for the experience of independent life in a secure environment. Nestled in the 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

PERAK



## Bachelor of Science (Hons) Actuarial Sciences

JPT/BPP(MQA/PA6639)04/21

# Bachelor of Science (Hons) Actuarial Sciences

JPT/BPP(MQA/PA6639)04/21

The Bachelor of Science (Hons) Actuarial Sciences programme trains actuaries who have the ability to model and analyse finance-related risks, especially in the banking and insurance industries.

There is a high demand for quality actuaries in financial planning institutions, corporations, investment companies and brokerage firms – particularly in risk management and financial consulting services.

QIU's Actuarial Science programme is recognised by international professional examination bodies such as the Society of Actuaries (SOA), the Casualty Actuarial Society (CAS), the Canadian Institute of Actuaries (CIA), the Certified in Quantitative Risk Management (CQRM) by the International Institute of Professional Education and Research (IIPER) and the Registered Financial Planner (RFP) by the Malaysia Financial Planning Council (MFPC). Our curriculum is designed to prepare students for these tests.

The programme includes four significant specialisations - **Financial Planning, Data Science, Banking and Islamic Finance**. Popular software systems such as **SPSS, R, Python, C++, SAS and Real Time Stock Price Tracking System** are incorporated into the programme's curriculum design. This ensures that graduates are able to analyse business and finance problems with mathematical models and provide specific financial solutions.

✓ **Intakes:**  
April, July,  
September/October

📅 **Duration:**  
3 years Full-time 5 years Part-time

🕒 **Mode of Study:**  
Full-time and Part-time

💬 **Mode of Delivery:**  
Lectures, Tutorials, Oral Presentation, Seminars, Case-studies, Problem-based Learning Sessions, Research Project, Lab Practical

📄 **Assessment:**  
Quizzes, Project, Assignment, Lab Test, Mid-semester Examination and Final Examination

## Minimum



## Entry Requirements

### Sijil Tinggi Persekolahan Malaysia (STPM)

Pass Sijil Tinggi Persekolahan Malaysia (STPM) with two full passes in 2 subjects and with a credit in Mathematics at Sijil Pelajaran Malaysia (SPM) level; OR

### Sijil Tinggi Agama Malaysia (STAM)

Pass Sijil Tinggi Agama Malaysia (STAM) with a minimum Jayyid Rank in 2 subjects and with a credit in Mathematics at the Sijil Pelajaran Malaysia (SPM) level; OR

### General Certificate of Education Advanced ("A") Level

Pass A-Level/New South Wales Higher School Certificate (NSW HSC) with passes in 2 subjects; OR

### Diploma

Pass Diploma in a related field of study with a minimum CGPA of 2.5. Candidates with CGPA below 2.5 but above 2.0 may be admitted subject to rigorous internal assessment process; OR

Pass Diploma in any other field with a minimum CGPA of 2.5 and with a credit in Mathematics at Sijil Pelajaran Malaysia SPM (or equivalent) level; OR

### Matriculation / Foundation

Pass QIU foundation in Business/Science Programmes with CGPA  $\geq$  2.0; OR

Pass South Australian Matriculation Programme (SAM)/ Australian Matriculation Programme (AUSMAT)/ University of New South Wales (UNSW) Foundation/ Monash University Foundation Year (MUFY)/ Canadian International Matriculation Programme (CIMP)/ Canadian Pre-University (CPU); OR

Pass Matriculation/ Foundation/ Asasi from any IPTA/ IPTS/ Institution that is allowed to offer pre-university programme with a minimum CGPA of 2.00; OR

### Unified Examination Certificate (UEC)

Pass Unified Examination Certificate (UEC) with a minimum of Grade B in 5 subjects including Mathematics; OR

### Other Qualifications

Pass International Baccalaureate with average grade point  $\geq$  2.0 based on three advanced level subjects. A minimum total point is 20, excluding bonus points; OR

Other qualifications will be assessed based on Senate's recommendation and referred to MQA for approval on a case by case basis.



## Programme

## Content

The following courses are offered in the **Bachelor of Science (Hons) Actuarial Sciences (JPT/BPP (MQA/PA6639)04/21)** programme:

### General Studies Subjects

#### Local

- Hubungan Etnik
- TITAS
- Communication Skills / Bahasa Kebangsaan A
- Media and Community
- Community Service

#### International

- Bahasa Melayu Komunikasi 2
- Malaysian Studies
- Communication Skills
- Media and Community
- Community Service

### University Courses

- English for Academic Purposes
- Devices, Networks & Applications
- Disciplined Entrepreneurship

- Design Thinking
- Co-curriculum

### Core Courses

#### Year 1

- Calculus and Linear Algebra
- Principles of Programming
- Financial Mathematics
- Statistics and Probability
- Microeconomics
- Macroeconomics

- Discrete Mathematics with Applications
- Risk Management and Insurance Planning
- Foundation in Financial Planning
- Introduction to Financial Accounting
- Corporate Finance
- Financial Accounting and Reporting

#### Year 2

- Theory of Probability
- Actuarial Mathematics
- Risk Modelling
- Regression Analysis
- Risk Analysis
- Operations Research

- Survival Models
- Life Contingencies I
- Portfolio Management and Applications
- Actuarial Modelling I
- Advanced Calculus and Differential Equation
- Investment Planning and Analysis

#### Year 3

- Industrial Training
- Project I
- Project II

- Actuarial Modelling II
- Stochastic Methods for Actuarial Science
- Life Contingencies II

### Elective Courses

#### Specialisation

##### Financial Planning

- Retirement Planning
- Islamic Financial Planning
- Tax Planning and Analysis

##### Data Science

- Database System
- Data Mining and Warehousing
- Business Intelligent

##### Banking

- Money and Banking Management
- Credit Analysis and Lending
- Banking Operations and Treasury Management

##### Islamic Finance

- Retirement Planning
- Islamic Financial Planning
- Islamic Investment

## Why

## Choose QIU?

# 1

QIU is the **only University** offering a Bachelor's Degree in Actuarial Science in the **Northern region of Malaysia**

# 2

The only **Actuarial Science** programme in Malaysia offering **4 specialisations** in **Financial Planning, Banking, Data Science** and **Islamic Finance**

# 3

**Programme fully recognised** by Malaysian and international professional bodies

# 4

Module exemptions for the Certified in Quantitative Risk Management (CQRM)

# 5

Module exemptions and SOA examinations also recognised by the **Casualty Actuaries Society (CAS)** and the **Canadian Institute of Actuaries (CIA)**.

# 6

Students specialising in **Financial Planning** will be exempted for **six out of seven modules** under the Registered Financial Planner (RFP). They complete their last module in QIU to gain full-modules exemption before graduating.

# 7

Core courses are **designed according to the requirements of the USA's Society of Actuaries (SoA)**. Students granted 3 VEE (Validation Education Experience) credits, but the modules will cover all six SOA examinations for the Associate of SoA (ASA) pathway.

# 8

Students **eligible to become student members of the MFPC**; able to upgrade to MFPC affiliate members in 2nd year