



SEPTEMBER  
&  
FEBRUARY  
INTAKE  
APPLY NOW!



# MASTER OF SCIENCE INDUSTRIAL MATHEMATICS

POSTGRADUATE PROGRAMME (by mixed-mode) - MQA/FA 9029

*Cater the demands and needs of Industrial Revolution 4.0*

## WHY SHOULD ENROL IN THIS PROGRAMME?

- Cater two pillars of Industrial Revolution 4.0 (IR 4.0) – Big Data Computing & Simulations.
- Knowledge is integrated with programming skills Python, R-Language, MATLAB, Minitab, Excel VBA, KNIME, WEKA.
- No Final Exam!!
- Flexible timetable for busy professional.
- Hybrid Classes (Online and Face to Face Learning)
- Designed for Mathematicians and Non-Mathematicians.
- Industrial case study is embedded in all courses.
- Professional development for career enhancement towards digitalization world.

## HIGHLIGHTED IR 4.0 TOPICS

Programming & Simulation (Python), Machine Learning, Data Mining, Pattern Recognition and Data Visualization, Image Processing, Monte Carlo Simulation, Graph & Trees, Time Series Analysis, Multivariate Data Analysis, Optimization, Modelling & Simulation.

## DEMAND OF THE MATHEMATICS GRADUATE ACROSS A RANGE OF SECTORS

- Petroleum Industries
- Manufacturing Industries
- Medicine and Health
- Information Technology
- Business Consultancy and Operational Research
- Engineering Companies
- Insurance Companies
- Market Research and Marketing Companies
- Finance, Banking and Accountancy Firms
- Human Resource
- Educational Sectors
- Government Sectors
- Consulting Sectors
- Retail Sectors

## CAREER PATH

- Academician
- Acoustic Consultant
- Algorithms Engineer
- Business Analyst
- Data Analyst
- Data Engineer
- Data Scientist
- Inventory Control Specialist
- Machine Learning Engineer
- Mathematical Modeler
- Meteorologist
- Operational Researcher
- Programmer Analyst
- Quantitative Financial Analyst



## ADMISSION REQUIREMENTS

### University Requirements

1. A bachelor's degree with minimum CPA of 2.75 or equivalent, as accepted by the University Senate; OR
2. A bachelor's degree or equivalent in related fields with  $2.50 \leq \text{CPA} < 2.75$  can be accepted subject to comprehensive internal assessment and 1 year working experience in the relevant fields; OR
3. A bachelor's degree or equivalent in related fields with  $2.00 \leq \text{CPA} < 2.50$  can be accepted subject to comprehensive internal assessment and the candidate must meet the following criteria:
  - i. Working experience in related field – 5 years; OR
  - ii. Working experience in related field – 1 year; AND
    - a. Portfolio endorsed by faculty expert; OR
    - b. Obtain a minimum of three (3) Grade B+ for major/ elective courses; OR
    - c. Obtain Grade A- for final year project.

### Programme Requirements

Applicant without a bachelor's degree in Mathematics can be accepted subject to they have sufficient mathematics background as indicated by a minimum average grade B for the Mathematics courses.

### International Student

Minimum English Requirements	Band/ Points
MUET	Band 3.0
IELTS	Band 5.0
TOEFL	500
TOEFL Internet Based Test (IBT)	42

The certification should not be more than **2 years**.

### COURSE FEES

Local Student (MYR 285/Credit Hour)	MYR 15,205
International Student (MYR 475/Credit Hour)	MYR 26,375

\*MYR – Ringgit Malaysia

\*Hostel/ Accommodation fees are not included



## HOW TO APPLY?

<https://ips.ump.edu.my>  
Click Online Application

## CONTACT US FOR MORE INFORMATION

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