



MSC IN ASSET MANAGEMENT AND MAINTENANCE

JPT/BPP(R3/0714/7/0004)08/27
JPT/BPP(R-DL/0714/7/0006)02/30



Recognized as IAM
Corporate Member through
the Qualifications
Recognition Program



Capturing favourable industry opportunities in asset management and maintenance!

Effective asset management practices deliver great benefits to asset-intensive organisations. The quest for lower operating cost, longer asset life, improved asset performance, greater reliability, higher safety standards, enhanced environmental support and informed investment strategies are persistent high-value business challenges facing today's asset managers.

Developed in collaboration with PETRONAS, MSc in Asset Management and Maintenance helps students uncover what steps asset managers need to take in order to capture the full value of asset's availability and performance.

Students will be mentored by seasoned industry experts and adjunct lecturers to explore how cost-effective asset management and maintenance strategies can be configured across a wide range of sectors. Ultimately, the programme opens global career opportunities for students, ushering working professionals towards tried and tested asset management practices to scale lasting improvement in their organisations' day-to-day asset operations.

Building a talent pipeline of asset management and maintenance specialists! Benefit from learning objectives tied to the contours of reality-based industry situations and changes!

Join a leading feeder university for the asset management and maintenance industry!

Get in touch with the latest industry thinking.

Grow your industry perspective with subjects grounded in day-to-day industry challenges, opportunities and outcomes.

Learn how to leverage real industry data and research evidence to provide solutions through cutting edge technology tools and management techniques.

“ The industry is a fast growing field. With current oil and gas industry's scenario, there is increasing demand for maintenance planners and asset managers. The programme is well suited to help students progress further in the oil and gas industry. It is detailed, industry-focused and delivered by professors who amass years of profound industry experience. The knowledge gained can also be mapped across other fields such as plant management and energy industry. Also, during my study, I was coached to be an ambitious industry actor. The classes too were excellent with healthy discussions and interactions between my professors and students. Discussions about everyone's own experience has helped me to further understand each topic better and how it can be applied to solving real problems in the industry. ”

- Hassan Mubammad Shabid -
QCon-Qatar Engineering & Construction

Building a resilient asset management and maintenance industry driven by fresh talent and ideas

The programme covers a broad basis of asset management and maintenance practices applicable across a vast array of industries and sectors. Therefore, the programme provides a great launchpad for engineers, asset managers, consultants and technologists who are keen to pursue a global career and thrive within local and international companies in the following industries as well as beyond:



Oil and gas
Petrochemical plants, refineries, Offshore platforms, pipelines



Power industry
Power regeneration, power plant, power distribution, gas district cooling



Manufacturing
Automotive, aerospace, electronics, heavy industries



Infrastructure
Buildings, fabrication yards, maintenance, transportation



Public sector
Health and Safety (DOSH), Public works departments

5 reasons to join MSc in Asset Management and Maintenance at UTP!

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5

Industry-driven programme jointly developed with PETRONAS and senior industry experts!

Reap the benefits of an industry-backed programme that supports the global mission of the industry!

Leverage our vast industry network!

Grow your value and adopt a powerful multiplier of innovation by bringing the latest asset management practices to your organisation.

Get a sneak peek at the future with maximum industry exposure!

Boost your industry readiness! Take advantage of diverse and compelling career opportunities.

Sign up for our Open Distance Learning (ODL) programme

Offered with the flexibility of classes on campus, online or a blend of both, working professionals can opt for the best mode of learning to accommodate their busy schedules.

Get recognised through IAM Certificate

Furthering your capability within the profession through the Institute of Asset Management (IAM) recognition qualification.



APPLY NOW

The industry is our classroom

- 1 Programme jointly developed with PETRONAS' custodian engineers.
- 2 Programme subjects delivered by senior industry experts and adjunct lecturers.
- 3 Project-based assignments: Capture real industry-derived analytical data resources.

Get your hands in the industry with our vast network

Benefit from our close collaborations with a wide range of industry partners mapped across our curriculum development and adjunct lecture series.

Course structure

Candidates are required to complete total of 41 credit hours. The programme's curriculum structure is as follows:

Category	Module	Credit Hour
Core	Principles of Appraisal, Repair and Maintenance	3
	Plant Asset Maintenance Management	3
	Asset Life Study	3
	Asset Operation Optimization	3
	Asset Integrity Management	3
	Asset Reliability and Risk	3
Electives (Choose 2 from the following groups)	Elective 1	
	Offshore Structural Integrity Management	3
	Condition-based monitoring and analysis	3
	Elective 2	
	Engineering Failure Analysis	3
Pipeline Corrosion Management	3	
University Requirement	Data Analytics	3
	Project Management	2
National Requirement	Research Methodology	2
Project	Industrial-Based Project 1	3
	Industrial-Based Project 2	7
TOTAL		41

As per requirement by Malaysian Qualification Agency (MQA), candidates coming from non-discipline into MSc in Asset Management and Maintenance programme (such as sciences) have to take TWO pre-requisite courses before enrolling for the MSc programme. The two pre-requisite courses are (1) Dynamics and (2) Heat Transfer

Mode of study

Conventional

ODL

Minimum **12 months**
Maximum **36 months**

Flexible arrangement for Full Time Open and Distance (ODL) Learning mode:

- 100% online with self-instructional materials (SIMS)
- 8 hours minimum of online live class session for each course per semester
- Classes after working hours/over the weekend
- Online open book final exam

Medium of Instruction

English

Intake

January/May/September

Entry requirements

Academic

1	Bachelor's Degree in a relevant field from a recognised university with a minimum CGPA of 2.50 or its equivalent OR;
2	Bachelor's Degree in a relevant field from a recognised university with a minimum CGPA of 2.00 - 2.49 or its equivalent will require 5 years of working experience and internal rigorous assessment.
3	Bachelor's Degree from different discipline, must undergo pre-requisite courses in Engineering or Engineering Technology.
4	No Bachelor's Degree? Apply with your working experience. Candidates who satisfy APEL A requirements are eligible to enrol. Scan the QR code to learn more.



English language proficiency

International students are required to be proficient in written and spoken English with a minimum TOEFL score of 500 OR a minimum IELTS score of 5.0 or its equivalent.

Exemptions may be provided for candidates who are native English speakers or degree holders with English as the medium of instruction.

Graduation requirements

In order to graduate with MSc in Asset Management and Maintenance degree, candidate is required to:

1	Obtain a minimum cumulative grade point average (CGPA) of 3.00
2	Satisfy all the requirements approved by UTP Senate
3	Fulfill the required credit hours and pass Research Methodology course

Tuition fees

Application Fee	Local	International
	RM50	RM200 / USD50

Registration as a student

Bond	None	RM3,000
Registration Fee	RM500	RM1,400
Commitment Fee	RM500	RM800
Total	RM1,000	RM5,200

Commitment throughout studies

Semester Fee	RM400		RM400	
Tuition Fee	Conventional	ODL	Conventional	ODL
	28,350	22,500	37,400	29,600

Rankings & ratings



**World
University
Rankings 2025**
WORLD TOP 250

RANKED 53



For programme enquiry:

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Centre for Graduate Studies

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For admission enquiry:

Admission Line :

Local candidates : +605 368 8064

International candidates : +605 368 8364

Universiti Teknologi PETRONAS, 32610 Seri Iskandar, Perak Darul Ridzuan, Malaysia

For further details on the application, visit www.utp.edu.my



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* As of January 2025