UTP
UNIVERSITI TEKNOLOGI PETRONAS

MSc in Petroleum Engineering

JPT/BPP(R2/524/7/0046)05/25
JPT/BPP(N-DL/0711/7/0002)07/27

Rebuilding oil and gas workforce for future success!

The petroleum engineering industry faces a yawning talent gap that has been building for years. Following the industry's recent boom and bust cycles, the supply of petroleum engineers is estimated to fall short of the industry's needs over the next several years. Unless addressed soon, the shortage will undermine the industry's long-term growth. As a result, this will spark a surge in the demand for petroleum engineers in the near future.

Developed in collaboration with PETRONAS SKG-10: an engineering focus group under PETRONAS' development wing, custodian engineers and senior industry experts, UTP's MSc in Petroleum Engineering prepares students to capture gains by applying leading industry practices and quantitative methods to exploit subsurface oil and gas reserves. In response to the industry's relentless change, students will work with senior industry experts to generate thematic insights and outcome-based project delivery from conducting research and field projects using the latest industry-derived data to drive growth.

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

Join a leading feeder university for the oil and gas 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 field-development tools and techniques.

Who is the programme for?

Despite the industry adjusting to a new reality, hydrocarbons will continue to be a main source of global energy. Given the fact that these resources will be less accessible and available, to break out from production stagnation, the industry needs to harness the power of advanced technologies to extract them. In turn, this will ramp up the demand for skilled petroleum engineers and graduates will also get the opportunity to broaden their careers into research, production and consulting.

3 reasons to join MSc in Petroleum Engineering at UTP!

1 Modular-based programme jointly developed with PETRONAS' custodian engineers!
Reap the benefits of an industry-backed programme that supports the global mission of the industry!

2 Leverage our vast industry network!
Grow your technical expertise through industry-specific projects with any one of our renowned industry partners.

3 Get a sneak peek at the future with maximum industry exposure!
Boost your industry preparedness and take advantage of a diverse range of career opportunities.

The industry is our classroom

1	Curriculum 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.
4	Digitally enabled classes, high performance workstations and virtual reality.

Get your hands in the industry with our vast network

Benefit from our deep-tech collaborations with a wide range of upstream oil & gas industry players. In addition to PETRONAS and Shell, we work closely with major oil & gas services' companies such as Schlumberger, CGG, Halliburton and DownUnder Geosolutions for curriculum development and industrial attachment placements.

Course structure

Candidates are required to complete all credit hours as below:
Full Time 41 credit hours
Full Time (ODL) 40 credit hours

Full Time (Conventional)

Category	Module	Credit Hour
Core	Reservoir Engineering	3
	Formation Evaluation	4
	Drilling Fluids & Cementing	3
	Drilling Engineering	3
	Production Engineering	4
	Well Test Analysis	3
	Project Management & Economics	3
	Reservoir Simulation	3
University Requirement	Data Analytics	3
National Requirement	Research Methodology	2
Project	Individual Research Project 1	3
	Individual Research Project 2	7
TOTAL		41

Full Time ODL

Category	Module	Credit Hour
Core	Reservoir Engineering	3
	Formation Evaluation	4
	Drilling Engineering	4
	Well Test Analysis	3
	Production Engineering	4
	Reservoir Simulation	3
	Petroleum Economics	3
Electives (Choose 1)	Project Management	2
	Strategic Management	2
University Requirement	Data Analytics	3
National Requirement	Research Methodology	2
Project	Research Project	10
TOTAL		40

Mode of study

Conventional

ODL

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

On-demand tailored weekend programme

Busy working? Fret not. We have 2 options for you:
a. On demand tailored weekend programme (Conventional mode)
b. Fully online programme (ODL mode)

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.
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	Apply with your working experience. Candidate who satisfy APEL A requirements are eligile to enrol. Scan the QR code to learn more.

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Applications with other relevant qualifications can also be considered subject to research and working experience as well as candidates' capability to satisfy study requirements.

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 Petroleum Engineering 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

Malaysian			International		
Conventional	ODL		Conventional	ODL	
RM29,350	RM23,100		RM38,300	RM30,000	
RM400		Resource (every semester)		RM400	
RM500		Registration		RM1,400	
RM500		Commitment		RM800	
-		Personal bond		RM3,000	

Rankings & ratings

2019 SETARA HIGHLY COMPETITIVE MATURE UNIVERSITY

(6 STAR) MyRA® MALAYSIA RESEARCH ASSESSMENT

RANKED 60 THE WORLD UNIVERSITY RANKINGS 2022 TOP 60 EMERGING ECONOMIES

THE World University Rankings 2023 TOP 500

RANKED 79 THE World University Rankings Young 2023 TOP 80

RANKED 63 THE World University Rankings 2023 Asia

For programme enquiry:

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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 at 19 October 2023*