

# MSC IN DRILLING ENGINEERING

JPT/BPP(R/544/7/0003)08/24  
JPT/BPP(N-DL/0724/7/0002)07/27





## Uncover capability drivers from technology and thematic data insights!

Developed in collaboration with PETRONAS SKG25, an engineering focus group under PETRONAS' capability development wing, UTP's MSc in Drilling Engineering is designed to help students reap the full benefits of the industry's structural shift. To stay in touch with the new realities evolving the oil and gas industry, students will be mentored by senior industry experts and experienced lecturers to align on cutting-edge, safe and effective technical practices and knowledge. Also, the programme gears up students to create a step change in industry performance with better processes and engineering know-how. Ultimately, the highly niche programme prepares young graduates and working professionals to become tenacious drilling engineers.

## Programme highlights

### Extra savings for employers:

Save half the cost of upskilling your engineers from similar training courses! Accelerate your talent development plan with our fast-track programme: 1-year minimum completion requirement plus 6-month industrial attachment programme with a reputable industry partner.

### Perks for fresh graduates:

Connect with our deep-tech industry ties to enhance your career outlook.

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

**Join a leading feeder university for the drilling 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?

## Lead the sector's engineering transition

To manage challenges and opportunities from world-wide energy transition, resourceful drilling engineers are in demand across local and international oil and gas job markets. Therefore, the programme has been designed to help fresh graduates and working professionals lead the industry's forward transition to thrive in the long term.

## 6 reasons to join MSc in Drilling Engineering at UTP

1

Programme jointly developed with PETRONAS SKG25 & custodian engineers!

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

2

The only university in Asia and one of only two in the world to offer the highly niche programme!

3

Well control training and certificate!

Obtain an International Well Control Forum (IWCF) level-4 training and certification valid for 2 years!

4

10-day onshore rig training

Drill deeper with hands-on field trip explorations encompassing:

- Rig equipment
- Drilling hazards
- Technical limits
- HSE and on-site risk management

5

Real-time industry exposure!

Boost your industry preparedness by monitoring real time well drilling activities across different parts of the globe.

6

Leverage our vast industry network! Opportunity for industry attachment programme!

Grow your technical expertise through drilling-specific projects with any one of our renowned drilling industry partners.

## The industry is our classroom

1

Programme subjects delivered by senior industry experts and adjunct lecturers.

2

Project-based assignments: Capture real industry-derived analytical data resources.

## Get your hands in the industry with our vast industry network

Benefit from our deep-tech collaborations with the industry. In addition to PETRONAS, UTP works closely with a wide range of drilling engineering companies for curriculum development and industrial attachment placements.

## Associates, partners and teaching instructors:

- PETRONAS
- INSTEP
- Halliburton
- Velesto Energy Berhad
- Sapura Energy Berhad
- Schlumberger

# Course structure

Candidates are required to complete all credit hours as below:

Full Time 41 credit hours

Full Time (ODL) 44 credit hours

Full Time (Conventional)		
Category	Module	Credit Hour
Core	Geomechanics	3
	Well Engineering	4
	Drilling Fluids & Cementing	3
	Well Completion	3
	Project Management & Economics	3
	Well Intervention and Abandonment	3
	Advanced Well Design and Operation	3
	Well Construction	4
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	Geomechanics	3
	Casing Design & Tubular	3
	Drilling Fluids & Cementing	3
	Hydraulics & Drill String Design	3
	Project Management & Economics	3
	Well Completion	3
	Well Engineering 1	3
	Well Construction	3
	Well Intervention & Workover	3
	Well Engineering 2	3
University Requirement	Data Analytics	2
National Requirement	Research Methodology	2
Project	Individual Project	10
TOTAL		44

## 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 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 Drilling 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
RM70,000	RM69,800	RM100,000	RM99,700
RM400	Resource (every semester)	RM400	
RM500	Registration	RM1,400	
RM500	Commitment	RM800	
-	Personal bond	RM3,000	



# Rankings & ratings



## 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](http://www.utp.edu.my)



\* As at 19 October 2023