MSc in DRILLING ENGINEERING

JPT/BPP(R/544/7/0003)08/24
Rankings & ratings

For programme enquiry:
Dr Dzeti Farhah Mohshim
Programme Manager
Email: dzetifarhah.mohshim@utp.edu.my

For admission enquiry:
Admission Line:
Local candidates: +605 368 8064, +6013 488 5499 (WhatsApp only)
International candidates: +605 368 8364, +6011 2898 5499 (WhatsApp only)
Universiti Teknologi PETRONAS, 32610 Seri Iskandar, Perak Darul Ridzuan, Malaysia

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

* As at 30 June 2020
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.

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**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! 6-month industrial attachment programme!**
   Grow your technical expertise through drilling-specific projects with any one of our renowned drilling industry partners.

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**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.**

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

Benefit from our deep-tech collaborations with the industry. In addition to PETRONAS and Shell, 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 a total of 44 credit hours. The programme’s curriculum structure is as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Module</th>
<th>Credit Hour</th>
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</thead>
<tbody>
<tr>
<td>Core</td>
<td>Well Construction</td>
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<tr>
<td></td>
<td>Geomechanics</td>
<td>3</td>
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<tr>
<td></td>
<td>Drilling Fluids &amp; Cementing</td>
<td>3</td>
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<tr>
<td></td>
<td>Casing Design &amp; Tubular</td>
<td>3</td>
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<tr>
<td></td>
<td>Hydraulics &amp; Drill string Design</td>
<td>3</td>
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<tr>
<td></td>
<td>Well Completion</td>
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<td>Well Engineering 1</td>
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<td>Project Management &amp; Economics</td>
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<td>Well Intervention &amp; Workover</td>
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<td></td>
<td>Well Engineering 2</td>
<td>3</td>
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<td>University Requirement</td>
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<td>Research Methodology</td>
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<td>Individual Project</td>
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<td><strong>44</strong></td>
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</tbody>
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## Duration

**Conventional**

Minimum: 18 months  
Maximum: 36 months

## Medium of Instruction
- English

## Intake
- January / 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 CGPA of 2.00 - 2.49 or its equivalent will require 5 years of working experience and internal rigorous assessment.

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

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 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

**Tuition fees**

<table>
<thead>
<tr>
<th></th>
<th><strong>Malaysian</strong></th>
<th><strong>International</strong></th>
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<tbody>
<tr>
<td>Conventional</td>
<td>RM70,000</td>
<td>RM100,000</td>
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<tr>
<td>Resource (every semester)</td>
<td>RM400</td>
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<td>Registration</td>
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<td>Commitment</td>
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<tr>
<td>Personal bond</td>
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