



# MSC IN PETROLEUM GEOSCIENCE

JPT/BPP(R3/443/7/0001)07/26  
JPT/BPP(N-DL/443/7/0028)02/25



# Creating a pipeline of E&P specialists!

Rising complexity, costs and risks combine to make the oil and gas industry more challenging than ever. Despite the dramatic changes under way, exploration and production (E&P) sector specialists are in short supply amid the industry's pressing need to push technical boundaries and efficiencies in order to overcome the rigours of global challenges. Designed in collaboration with the French Institute of Petroleum (IFP), UTP's MSc in Petroleum Geoscience prepares students for their professional paths as E&P specialists.

As such, the programme explores the complex challenges of the petroleum geoscience industry to drive enhanced models of hydrocarbon resources' exploration and exploitation. Students will work together with seasoned industry experts to develop industry-specific thematic insights that support the global mission of the industry as an ally to their development. In addition, the programme trains students to advance an actionable roadmap by executing industry-wide global strategies. Ultimately, the programme seeks to bridge the talent gap for oil and gas industry specialists, namely field geologists, seismic interpreters, quantitative geophysicists and E&P subsurface risk leaders.



**Building a talent pipeline of petroleum geoscience 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.**

“The industry is yet to capture the full potential of data. During my study, I was mentored by experienced industry practitioners on how to improve current best practices. The peer-to-peer learning helped me to generate actionable insights in order to make better and faster decisions based on actual hydrocarbon field data. By and large, my education at UTP has given me the opportunity to accumulate more experience to get better at what I do.”

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*- Azwa Jannah -*

Peninsular Malaysia (PM424) Exploration Team Leader, PETRONAS

# Who is the programme for?

At present, oil and gas companies are transforming how they operate to anticipate innovative forms of upstream energy, government regulation, and digital disruption. Decidedly, as the industry shifts towards new strategies, oil and gas specialists will be a key cog to help the industry find new ways to push forward. Sign up today to pursue a global career or carve an entry point into research and academia.

## 4 reasons to join MSc in Petroleum Geoscience at UTP!

1

Modular-based programme jointly developed with top geoscientists in upstream oil and gas industry!

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

2

Leverage our vast industry network! 4-month industrial-related project programme

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

3

Digitally enabled and immersive VR learning

Digitally enabled, MSc in Petroleum Geoscience's students will embark on a 360-degree geologic expedition. Carry out a host of virtual hydrocarbon field-work at our 3D Seismic Visualisation Centre to accelerate your industry-connected learning.

4

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.

## 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.

3

Data analytics: Explore, evaluate and characterise real data derived from various hydrocarbon fields and reservoirs from selected petroleum sites throughout Malaysia!

## 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.

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As the industry makes significant interventions in response to global uncertainties, petroleum geoscientists need to rapidly adjust to the changing needs of the industry, while navigating global operational challenges and building a resilient and future ready talent pool.

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- Mr Noor Azahar Ibrahim -  
UTP Industry Expert with 30 years of experience

# 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	Basin & Structural Dynamics	3
	Applied Sedimentology & Stratigraphy	3
	Petroleum System & Basin Modelling	3
	Applied Geophysics	3
	Formation Evaluation & Petrophysics	3
	Life of Field & Subsurface Risking	3
Core Specialisation (Choose 1 core specialisation)	<b>Core Specialisation A</b>	
	Advance Seismic Technology	3
	Quantitative & Computational Geophysics	3
	<b>Core Specialisation B</b>	
	Reservoir Modelling and Characterization	3
	Reservoir Engineering	3
University Requirement	Data Analytics	3
	Project Management	2
National Requirements	Research Methodology	2
Project	Individual Industrial Project I	3
	Individual Industrial Project II	7
TOTAL		41

## Mode of study

**Conventional**

**On-demand tailored weekend programme**

**ODL**

Busy working? Fret not. We have 2 options for you:

a. On demand tailored weekend programme (Conventional mode)

b. Fully online programme (ODL mode)

Minimum

**12 months**

Maximum

**36 months**

## Medium of Instruction

**English**

## Intake

**January/May/September**



# Entry requirements

Candidates without a qualification in the related fields or working experience in the relevant fields must undergo appropriate pre-requisite courses and meet the minimum CGPA based on (i) to (ii).

## 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 Geoscience.
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 Petroleum Geoscience 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
RM29,550	RM23,700	RM38,600	RM30,800
RM400	Resource (every semester)	RM400	
RM500	Registration	RM1,400	
RM500	Commitment	RM800	
-	Personal bond	RM3,000	



# Rankings & ratings



## For programme enquiry:

Ts. Dr. Abdul Halim Abdul Latiff  
Programme Manager  
Email: [abdulhalim.alatiff@utp.edu.my](mailto:abdulhalim.alatiff@utp.edu.my)

## 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)



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\* As at 19 October 2023



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