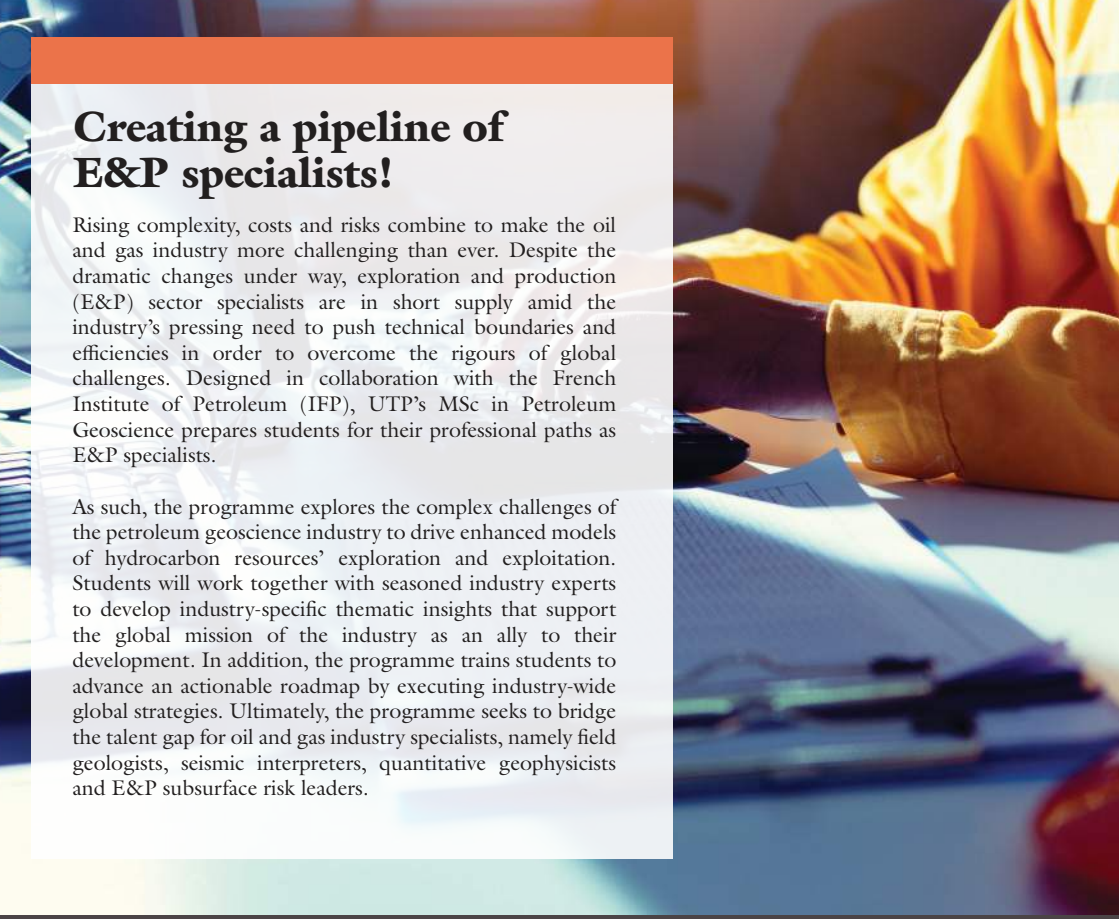
UTP
UNIVERSITI TEKNOLOGI PETRONAS

MSc in Petroleum Geoscience

JPT/BPP(R3/0532/7/0003)07/26
JPT/BPP(R-DL/0532/7/0004)02/30



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."**

- Azwa Jannah -
Peninsular Malaysia (PM424) Exploration Team Leader, PETRONAS

Developing Expertise in Petroleum Industry

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.

APPLY NOW

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.

> **"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."**

- 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)	**Core Specialisation A**	
	Advance Seismic Technology	3
	Quantitative & Computational Geophysics	3
	Core Specialisation 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

As per requirement by Malaysian Qualification Agency (MQA), candidates coming from non-discipline into MSc in Petroleum Geoscience programme (such as sciences) have to take TWO pre-requisite courses before enrolling for the MSc programme. The two pre-requisite courses are (1) Physical Geology and (2) Seismic Method

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 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 Geoscience.
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.

APEL A

English language proficiency

International students are required to be proficient in written and spoken English with a minimum TOEFL score of 550 OR a minimum IELTS score of 6.0 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

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

2022 SETARA COMPETITIVE

(6 STAR) MyRA® MALAYSIA RESEARCH ASSESSMENT

THE World University Rankings 2025 WORLD TOP 250

RANKED 53 QS WORLD UNIVERSITY RANKINGS ASIA IN THE TOP 100 2025

For programme enquiry:

Programme Manager
Ts Dr Abdul Halim Abdul Latiff
Email: abdulhalim.alatiff@utp.edu.my
Direct Line: +6053687127

Centre for Graduate Studies
Ms Nurul Asmira Sulaiman
Email: asmira.sulaiman@utp.edu.my
Direct Line: +6053688192

For admission enquiry:

www.utp.edu.my

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

UTPOfficial

** As of January 2025*