



## WHAT IS PETROLEUM ENGINEERING?

Petroleum engineering involves activities related to the development of reservoirs and production of hydrocarbons, specific to crude oil, natural gas and unconventional resources. Key areas in petroleum engineering include but not limited to formation evaluation, reservoir engineering, drilling and production engineering.

## WHAT DOES A PETROLEUM ENGINEER DO?

Petroleum engineers provide a critical service to society and solve important challenges that contribute to energy security and national prosperity. They design and develop plans to drill, produce and manage oil and gas reservoirs, to meet the global energy demand.

They play a big role in the success of oil and gas industries, which provide fuel and energy products that help increase economic growth for communities throughout the world.

They evaluate and monitor the oil and gas production through surveys, testing and analysis within an economical limit. They manage and commercialise the oil and gas resources, to ensure that optimal levels of these resources are being recovered.



# WHY STUDY PETROLEUM ENGINEERING AT UTP?

- 1 Comprehensively designed programme with strong inputs from industry experts
- 2 Students can choose specialisations that are in demand by the industry during their final year of study
- 3 World-class teaching and learning, research capabilities as well as state-of-the-art labs and facilities
- 4 Strong partnerships with multinational oil and gas companies such as PETRONAS, Schlumberger, Baker Hughes, Shell and ExxonMobil
- 5 UTP graduates are highly sought after by oil and gas industry, with 90% being employed within 6 months after graduation
- 6 More than 70% of UTP alumni are currently working in oil and gas industry
- 7 The academic staff are highly qualified and experienced, and a high percentage of them are chartered and professional engineers. Thus, undergraduate students can benefit greatly from their knowledge and expertise
- 8 The programme is accredited by the Engineering Accreditation Council (EAC) which is recognised by all countries under the Washington Accord signatories



## WHAT AM I GOING TO LEARN?

### National / University

- Management, Social Sciences and Humanities
- Introduction to Oil and Gas
- Scientific Inquiry
- Co-Curriculum

### Specialisation

- Reservoir Engineering
- Drilling Engineering
- Production Engineering

### Common Engineering

- Engineering Mathematics
- Engineering Economics
- Health, Safety and Environment
- Data Analytics
- Engineers in Society

### Project Based

- Engineering Team Project
- 7 months Structured Industrial Internship Programme
- Community Engagement Project
- Final Year Research Project
- Field Development Project

### Core Discipline by Programme

- Principles of Petroleum Engineering
- Reservoir Engineering
- Production Engineering
- Drilling Engineering

### Minor (Optional)

- Entrepreneurship
- International Relations
- Project Management
- Big Data Analytics

### Contact

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