



WHAT IS MECHANICAL ENGINEERING?

Mechanical engineering is the most diverse and versatile discipline involving the study and design of moving objects.

This even includes the system of a human body, a highly complex mechanical wonder. If anything needs to be manufactured and/or has moving parts, it is the job of a mechanical engineer.

WHAT DOES A MECHANICAL ENGINEER DO?

Mechanical engineers combine creativity, knowledge and analytical tools to design and create technological solutions to meet human needs, while ensuring their designs function efficiently, reliably, safely and economically.

They use tools such as computer-aided design and manufacturing as well as product life cycle management to design, develop, build and test products for almost all aspects of modern life, including the human body.



WHY MECHANICAL 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 partnership 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
- 9 Top 300 QS World University Rankings by Subject in 2019



WHAT AM I GOING TO LEARN?

National / University

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

Specialisation

- Energy Systems
- Advanced Manufacturing
- Advanced Materials Engineering
- Asset Integrity and Reliability

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
- Capstone Project

Core Discipline by Programme

- Applied Mechanics
- Thermofluids
- Instrumentation and Design
- Manufacturing and Materials
- Mechatronics

Minor (Optional)

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

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