BACHELOR OF MECHANICAL ENGINEERING TECHNOLOGY (PETROLEUM) WITH HONS.

UMPSA

اونيۏرسيتي مليسيا ڤهڠ السلطان عبد الله
UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

PROGRAMME SYNOPSIS

Bachelor of Mechanical Engineering Technology (Petroleum) with Honours degree is a programme that emphasizes a balance of theory and practical skills. Students can acquire substantial knowledge and comprehensive understanding in a combination of mechanical and petroleum disciplines to equip graduates with broad expertise that can be applied in industry and professional skills to enhance employability. This course contains mechanical and petroleum engineering technology, mainly focusing on fluid mechanics, thermodynamics, engineering economy, geosciences, reservoir and well drilling and completion. Moreover, the students will gain hands-on experience with the software and equipment related to industrial activities in the oil & gas industry.

WHAT IS ENGINEERING TECHNOLOGY?

"Engineering technology education focuses primarily on the applied aspects of science and engineering aimed at preparing graduates for practice in that portion of the technological spectrum closest to product improvement, manufacturing, construction, and engineering operational functions."

– The Accreditation Board for Engineering and Technology (ABET)



WHO CAN APPLY?

- Diploma
- STPM
- Matriculation
- IPTS Foundation

ENTRY REQUIREMENTS

SCAN ME
for full entry requirements
admission.umpsa.edu.my

CAREER OPPORTUNITIES

- Pipeline Integrity Technologist
- Operation Technologist
- Reservoir Technologist
- Petroleum Process Technologist
- Drilling Technologist
- Production Technologist
- Process Technologist
- Research & Development
- Government Services



APPLY NOW

CONTACT US

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MQA Number: MQA/FA8584

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PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

PEO 1	Graduates who practice their engineering technology knowledge in mechanical and petroleum related industries.
PEO 2	Graduates who engage lifelong pursuit of knowledge for industrial and R&D.
PEO 3	Graduates who display leadership skills in their workplaces and contribute towards society, environmental well-being and sustainable development.

PROGRAMME OUTCOMES (PO)

PO1 (Cognitive Domain) Knowledge: Apply knowledge of mathematics, natural science, computing and engineering fundamentals and an engineering specialization as specified in SK1 to SK4 respectively to defined and applied engineering procedures, processes, systems or methodologies.

PO2 (Cognitive Domain) Problem Analysis: Identify, formulate, research literature and analyse broadly-defined engineering problems reaching substantiated conclusions using analytical tools appropriate to their discipline or area of specialisation with considerations for sustainable development; (SK1 to SK4).

PO3 (Cognitive Domain) Design/Development of Solutions: Design solutions for broadly-defined engineering technology problems and contribute to the design of systems, components or processes to meet identified needs with appropriate consideration for public health and safety, whole-life cost, net zero carbon as well as resource, cultural, societal, and environmental considerations as required; (SK5).

PO4 (Psychomotor Domain) Investigation: Conduct investigations of broadly-defined engineering problems; locate, search and select relevant data from codes, data bases and literature, design and conduct experiments to provide valid conclusions; (SK8).

PO5 (Psychomotor Domain) Tool Usage: Select and apply, and recognize limitations of appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to broadly-defined engineering problems; (SK2 and SK6).

PO6 (Affective Domain) The Engineering Technologist and the World: Analyze and evaluate sustainable development impacts to: society, the economy, sustainability, health and safety, legal frameworks, and the environment, in solving broadly-defined engineering problems; (SK1, SK5, and SK7).

PO7 (Affective Domain) Ethics: Understand and commit to professional ethics and norms of engineering technology practice and adhere to relevant national and international laws. Demonstrate an understanding of the need for diversity and inclusion; (SK9).

PO8 (Affective Domain) Individual and Collaborative Team Work: Function effectively as an individual, and as a member or leader in diverse and inclusive teams and in multi-disciplinary, face-to-face, remote and distributed settings; (SK9).

PO9 (Affective Domain) Communications: Communicate effectively and inclusively on broadly-defined engineering activities with the engineering community and with society at large, by being able to comprehend and write effective reports and design documentation, make effective presentations, taking into account cultural, language, and learning differences;

PO10 (Affective Domain) Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making to one's own work, as a member and leader in a team and to manage projects in multidisciplinary environments;

PO11 (Affective Domain) Life Long Learning: Recognize the need for, and have the ability for i) independent and life-long learning and ii) critical thinking in the face of new specialist technologies. (SK8).

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