



UNIVERSITI
TEKNOLOGI
PETRONAS

Universiti Teknologi PETRONAS

Civil & Environmental Engineering Department

MSc Offshore Engineering

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TOWARDS GLOBAL PROMINENCE

VISION

A Leader in Technology
Education and Center for
Creativity and Innovation

ASPIRATION

Internationally recognized as industry partner
of choice and respected member of society &
scientific communities by the year 2025

MSC. OFFSHORE ENGINEERING

Programme Overview

The aim of offering this programme is to provide graduates with advanced knowledge and capabilities to deal with engineering issues within the offshore engineering domain

+

Objective

+

Intake

January, May & September

+

Duration

16 months
43 Credit hour

+

Fees



RM25,000
RM50,000

+

COLLABORATION

+

TARGET GROUP

recognised by:



Agensi Kelayakan Malaysia
Malaysian Qualifications Agency

*Term & condition applies



Comprehensive curriculum design
with global perspective



PETRONAS

In collaboration with SKG11

- PETRONAS SKG11 (Offshore) skill group
- Engineering graduates keen to pursue careers within the offshore sector
- Engineering graduates currently working in the offshore and ocean-related industries keen to extend their qualifications

contact us:



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Admission, Registry
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Programme Specialty

Joint developed with PETRONAS
SKG 11

Modular-based programme cover all the offshore engineering aspects from subsea pipeline, foundations to the platform topside.

Weekend classes for the convenient of the engineering practitioners

World class teaching & learning facilities, e.g. Wave Basin, Wave Flume, commercial software (SACS, STAR CCM, ANSYS, etc)





MSC. OFFSHORE ENGINEERING



Programme Outcomes

Demonstrate continuing and advanced knowledge in Offshore Engineering and have the capabilities to further develop or use these in new situations or multi-disciplinary context

Analyze and evaluate critically problems in Offshore Engineering particularly in situations with limited information and to provide solutions through application of appropriate tools and techniques

Appraise available information and research evidence in Offshore Engineering and apply it in the engineering context.

Plan and perform research undertakings in Offshore Engineering professionally, ethically and responsibly.

Report technical findings in both written and oral forms.

Recognize the needs for continuing professional development in Offshore Engineering.

Course Content



Core programme

- Wave Hydrodynamic
- Structural Dynamic
- Meteorology & Oceanography
- Design of Offshore Structure
- Risk, Reliability & Integrity of Offshore Structure
- Offshore Foundation
- Offshore Project Management



Electives

- Geotechnics & Geohazards
- Offshore Engineering Materials
- Theory of Elasticity
- Finite Element Method for Offshore Structures
- HSE Management in Offshore Engineering
- Offshore Pipelines
- Design of Floating Offshore Structures
- Coastal Engineering & Sediment transport
- Offshore Positioning
- Subsea Engineering for Oil & Gas Fields



Research

- Research Methodology
- Research Project I
- Research Project II

For more info, pls scan



UTP VU Apps

*Term & condition applies

Or surf UTP website at www.utp.edu.my



WAVE TANK

Dimensions :
22 m x 10 m, 1 m w.d

Function :
Wave impact, structural motion, floating responses, hydrodynamics, wave resistance, sea keeping, mooring, VIV, etc

WAVE FLUME

Dimensions :
20 m x 1.5 m, 1m w.d

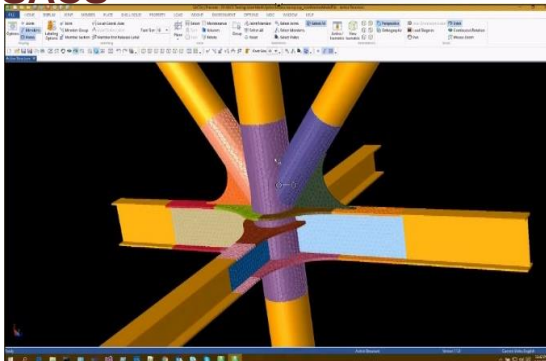
Function :
Effects of breaking waves on coastal and offshore structures, mangrove system modelling, breakwater design and evaluation, tsunami simulation



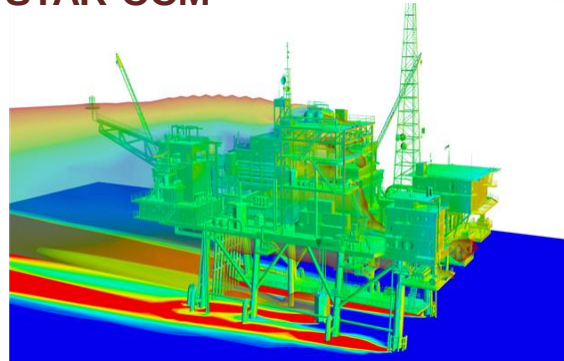
NUMERICAL MODELLING SOFTWARE

High Performance Computing labs

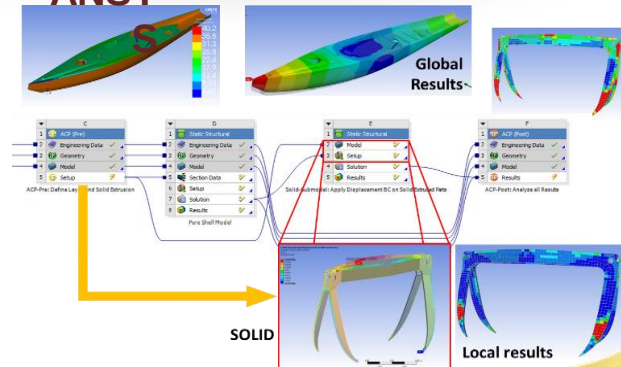
SACS



STAR-CCM



ANSYS





THANK YOU

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