


2nd
Oil & Gas
Platform
DESIGN 
COMPETITION




REGISTER NOW

2026

Come Join Now
PRIZES
1st : RM 2,000
2nd : RM 1,500
3rd : RM 1,000

A Sustainable Engineering Project
Creative and innovative solutions in Oil & Gas Industry

For registration and more info, contact IEM-OGMTD Secretariat Ms. Ezzaty
at 03-7890 0133 or email at ezzaty@iem.org.my

Find us at www.myiem.org.my  





OIL & GAS PLATFORM DESIGN COMPETITION

Introduction

IEM-OGMTD is thrilled to inspire the enthusiasm of the next generation of engineers. Join us and gain valuable insights into current and future developments in the oil and gas industry. This is a fantastic opportunity to explore the industry's role toward creating greener and sustainable energy solutions.

This competition will test future engineers' knowledge and insights in **designing a floating platform with innovative solutions**. The platform design blueprint will be the first step toward the final stage of the competition, where the platform model shall be made available for presentation session and robustness testing.

"Enhancing engineering innovation in the oil & gas industry"

Find us at www.myiem.org.my





IEM

The Institution of Engineers, Malaysia

OGMTD



OIL & GAS PLATFORM DESIGN COMPETITION TIMELINES



Open for registration

May 2026

Team registration



June 2026



**Project design planning &
coaching session**

Design Proposal submission



18 July 2026



Design Proposal evaluation

1st Stage

Shortlisted teams announcement



27 July 2026



**Model building &
coaching session**

2nd Stage / Final Stage

Competition Day



12 September at Wisma IEM, Petaling Jaya, Malaysia





OIL & GAS PLATFORM DESIGN COMPETITION

Registration

Payment shall be made directly at **IEM Website**

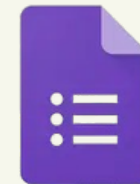
Competition Commitment Fees;

- RM 250/team for Malaysia University
- USD 100/team for International University



Fill in **the competition registration form** online at <https://forms.gle/L1cYrhPicV8S8oMBA> and upload;

- proof of payment
- student identification
- proposal & design blueprint



Google Forms

The online competition registration form must be submitted before **18 July 2026 at 05:00 PM**.

Technical Clarification and Coaching Sessions will be conducted online for registered teams that have made the payment.

The IEM-OGMTD Secretariat will notify these teams via email of the confirmed date and time of the sessions.



OIL & GAS PLATFORM DESIGN COMPETITION

Prizes & Certificates

1st prize: RM 2,000 and participation certificate

2nd prize: RM 1,500 and participation certificate

3rd prize: RM 1,000 and participation certificate

2 x consolation prizes: RM 500 and participation certificate

All other teams that do not make it past the 1st Stage shall receive an e-certificate

All teams will be invited to attend the 2nd Stage/Final Stage this year





OIL & GAS PLATFORM DESIGN COMPETITION

General Rules

- Open to active Engineering Undergraduate Students.
- A team can be from the same or different Malaysia Universities or International Universities, either from the same or from multi engineering discipline of semester of enrollment.
- A team must consist of a minimum of 4 (four) to a maximum of 5 (five) students, including team leader.
- **The competition consists of 2 (two) stages.**
 - Stage 1: The competition registration form must be submitted with a Design Proposal & Design Blueprint.
 - Stage 2: Shortlisted teams will be invited to The Competition Day (Final Stage) which will be held at Wisma IEM, Petaling Jaya, Malaysia for a presentation session.
- Each team must submit the design proposal before the due date and time via google form (Link here: [competition registration form](#)).
- Only the shortlisted teams are required to build the scaled platform model before The Competition Day (2nd Stage/Final Stage).



OIL & GAS PLATFORM DESIGN COMPETITION

Competition Format: General

File documentation naming format;

- [team name]_Proposal and Design Blueprint
- [team name]_Presentation

Design Proposal & Design Blueprint (1st Stage) must be submitted in .pdf format and shall in 1 (one) file.

The Competition Day (2nd Stage/Final Stage) presentation media pack must be in .pptx format.

Design Proposal & Design Blueprint (1st Stage) format in maximum of 55 pages;

- Paper size: A4
- Margin: 4cm (Top & Left), 3cm (Bottom & Right)
- Font: Times New Roman Bold (Title) Font Size: 12
Times New Roman Regular (Content) Font Size: 10
- Spacing: 1.5
- Alignment: Justified
- Citation & References: APA Style (<https://apaformat.org/apa-book-citation/>)
- Attachment: Design Blueprint & etc.

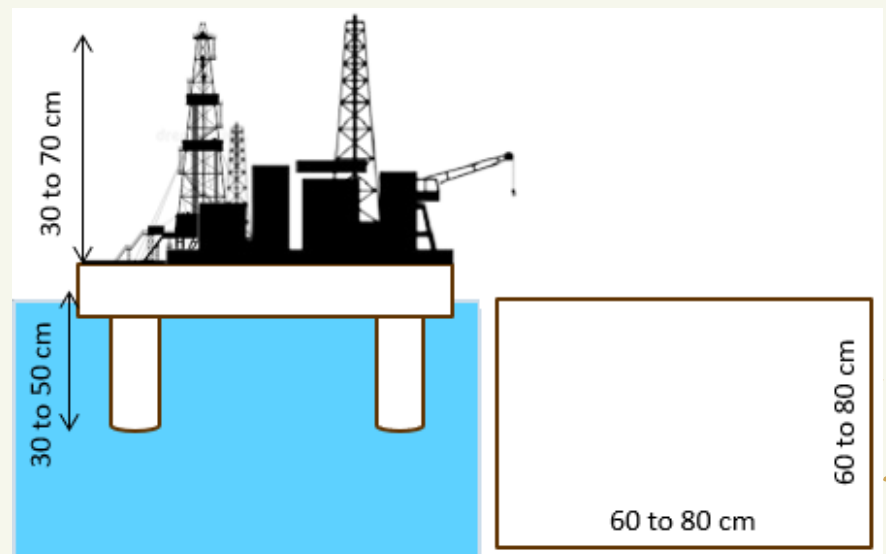


OIL & GAS PLATFORM DESIGN COMPETITION

Platform Model Specification

The scaled model specification shall as follows;

- Length between 60 to 80 cm
- Width between 60 to 80 cm
- Topside height between 30 to 70 cm
- Hull height between 30 to 50 cm
- Total weight shall be less than 25 kg
- Cost to build the model shall be less than RM 500
- The model shall be built with topside
- Center of Gravity (CoG) marking is advisable to be provided
- No restriction on the material selection





OIL & GAS PLATFORM DESIGN COMPETITION

Competition Guides

1. Design Proposal Guide (1st stage)

- Design Proposal must be **no longer than 55 pages** including design blueprint and attachment. This shall exclude references, with a maximum up to 3 pages
- **Design Proposal must include field & project background, problem statement, case or solution analysis, recommendation, and conclusion**
- Design blueprint must be submitted with the Design Proposal
- 5 (five) best Design Proposals & Design Blueprints will be shortlisted to The Competition Day (2nd Stage/Final Stage)
- Participants are free to use any software for modelling



OIL & GAS PLATFORM DESIGN COMPETITION

Competition Contents

Design Proposal

Shall describe in a detailed way, a solid and complete engineering knowledge and theory.

Some aspects to include in the proposal;

- Problem Statement: Identify key issues for a sustainable platform design and offer appropriate and efficient solutions
- In-depth Research: Support the solution with strong engineering data and industry research
- Model Design: Design the model according to specification that is innovative and suitable for the field conditions and operation of the platform
- Innovation: Propose new ideas to improve efficiency and environmental sustainability



OIL & GAS PLATFORM DESIGN COMPETITION

Competition Guides

2. Presentation Guide (The Competition Day - 2nd Stage/Final Stage)

- Only shortlisted teams will be given the Finalist Guide
- Each team member shall take turn to present
- Each team will be given sufficient time and the Moderator has the right to stop the presentation after the allocated time limit
- Time limit allocated for each team for presentation is 15 minutes, followed by 10 minutes for a Q&A with the judges
- The presentation should include information from the Design Proposal & Design Blueprint submitted



OIL & GAS PLATFORM DESIGN COMPETITION

Competition Guides

3. Platform Model Testing (The Competition Day - 2nd Stage/Final Stage)

- **The robustness testing will be conducted in 2 (two) tests**
 - Load Test on a flat surface
 - Float Test
- The topside shall be able to be removed during Load Test and Float Test
- The weights added will represent the topside and the weights will be added on incremental basis (maximum 25 kg)
- Load Test will be conducted on a flat surface without topside
- Platform models which pass the Load Test on a flat surface will proceed to the Float Test
- Float Test with weights will be conducted as required by the team
- Team will be required to put the weights on their platform within the time limit given
- Time limit for each team to complete each test is 5 minutes