



**ITS**  
Institut  
Teknologi  
Sepuluh Nopember



Institut Teknologi  
Sepuluh Nopember  
SPE Student Chapter



**PETROLIDA**  
**2023** petroleum  
integrated  
days

# INVITATION LETTER **PETROLIDA 2023**

An International Scaled Petroleum Event Competition held by **SPE ITS SC**



**Igniting Sustainable and  
Flawless Notion to Embrace  
The Energy Security.**





**PETROLIDA**  
**2023** petroleum  
integrated  
days

COMPETITION

# GENERAL RULES

## ELIGIBILITY

- The PETROLIDA 2023 Competition Event consists of the Oil Rig Design Competition, Paper Competition, Fracturing Fluid Design Competition, Petrosmart Competition, Business Case Competition, and Case Study Competition are open to all active undergraduate students; students under academic sanctions are not allowed to participate in those competitions.
- All participants must submit the complete registration form and payment receipt before the deadline.
- Each individual can only participate in a single competition and not allowed to be a member of two teams nor competitions.
- All participants must obey the rules and requirements for each competition. All entries and administration documents will become the property of PETROLIDA 2023 and will not be returned.

## COMMUNICATION

- All communications, presentations, verbal communications and documents will be conducted in English.
- Question about the rules and requirements for competition may be asked directly through PETROLIDA 2023 Official Accounts
- For inquiries please contact:  
**Haya Aqilah Zahra**  
Head Coordinator of Competition PETROLIDA 2023  
Email : comp.petrolida@gmail.com  
WhatsApp : (+62) 8561380195

# GENERAL RULES

## CHANGE IN RULES

- Competition rules are subject to change. Any changes in rules, clarifications or agenda will be announced to all participating universities directly to participants via email or during the technical meeting.
- Rules can be changed at any time and will be notified before the event starts.

## DRESSCODE

Participants from all competitions are expected to wear the respective dress code :  
**formal attire without an almatmater or university/institute identity**

## REGISTRATION

- The registration is accessible through PETROLIDA 2023 website :  
**[www.petrolida.com](http://www.petrolida.com)**
- The registration for all competition is open from :
  - **February 28th 2023 - March 29th 2023**
    - Oil Rig Design Competition
    - Fracturing Fluid Competition
    - Paper Competition
    - Petrosmart Competition
    - Case Study Competition
  - **February 28th 2023 - April 4th 2023**
    - Business Case Competition



# GENERAL RULES

## REGISTRATION

- Payment has to be done before the deadline by transferring to:  
**Account Number : 7655189203**  
**Bank Name : BCA**  
**Account Name : Putri Nabila Adekamtari**
- Payment for international participant has to be done before the deadline by transferring to:  
**Paypal : @putriadekamtari**  
**Account Name : Putri Nabila Adekamtari**

Other method of payment (credit card, etc) will not be accepted

- Participants are required to submit the payment receipt to the link that will be given during the registration process
- Payment has to be paid in **FULL AMOUNT**
- Finalists of PETROLIDA 2023 will be announced via PETROLIDA 2023 website, PETROLIDA 2023 official social media accounts, and directly to participants' email on :  
  
**27th April 2023** for Oil Rig Design Competition, Fracturing Fluid Competition, Paper Competition, Petrosmart Competition, and Case Study Competition.  
  
**7th May 2023** for Business Case Competition
- **NO REFUND** after receiving confirmation email as official delegates of PETROLIDA 2023.
- For any registration inquiries, please reach out through :  
**comp.petrovida@gmail.com**

# Case Study Competition



## Competition Theme

“Enhancing the Suitable Production to Embrace the Energy Security”

### Competition Description

PETROLIDA 2023 Case Study Competition is a competition that enables undergraduate students to demonstrate their critical thinking abilities, determination to address complex issues, and competence to work in teams in order to solve oil and gas industry-related cases. Participating teams of the competition will be challenged with a case problem statement given by a panel of petroleum experts representing various disciplines within oil and gas companies. Moreover, participating teams must also be able to examine case resolution using an appropriate problem approach in a solution report and presentation in front of the honorable judges.

### Case Overview

The production of overall BOPD annually in Ultra field has consistently decreased, as a consequence Ultra field still have not succeeded on achieving the annual target of 5000 BOPD. On the other side, the safety performance on the field is a key factor that must be included in the project of Ultra filed development. With that, please analyze and evaluate the risk associated with the hazard in the field is a problem that needs to be solved and improved. Each participating team is expected to be able to provide a solution based on the case study that will be provided in this competition.

### General Rules

1. Open for all undergraduate students from any major of universities all around the World.
2. All participants must fill out the registration form and pay the registration fee before joining the preliminary stage of the competition.
3. Each team is allowed to have members from different majors but must be from the same University.
4. Each team consists of 3 persons, with no substitute.
5. Participants are not allowed to register themselves on two (2) different teams or more held by Petrolida 2023 in the same year.
6. Preliminary Stages will be conducted by using online platform and the Final Stages will be conducted offline.
7. The title used for the abstract in the preliminary stage must match with the solution report and presentation in the final stage and has to be related to the main theme of case study competition.
8. Each team is limited to submitting a single abstract.
9. Content of the presentation must be related to the theme.
10. Any act of plagiarism is strictly prohibited.
11. All entries and administration documents will become the property of PETROLIDA 2023 Organising Committee and will not be returned.
12. All participants that passed the preliminary round should attend the Technical Meeting.
13. All the rules and regulation of Case Study Competition PETROLIDA 2023 are subject to change, any changes will be announced by email in advance to the Team Leader's email.
14. Failure to obey the rules, format or late submission may receive reduction of points or even **disqualifications**.
15. Judges' decision is final and cannot be changed nor interrupted under any circumstances.

### Competition Format

PETROLIDA 2023 Case Study is divided into two stages which are :

- a. Preliminary Stage (Abstract Selection)
- b. Final Stage (Solution Report and Presentation)



### Preliminary Stage Guideline for Participants

1. The preliminary stage is a round in which all registrant participants are eliminated until only ten teams with the best abstracts can make it to the final stage.
2. Each university is allowed to send more than three teams for the preliminary stage (abstract submission). However, only three teams (maximum) from the same university will persist to the final stages.
3. Full cases will be sent to each team's leader email account and can be accessed on PETROLIDA 2023's website (for registered teams only).
4. During the preliminary stage, participants are required to write an abstract that identifies the challenges in the case problem statement and the solutions and outcomes of the team's problem-solving.
5. In the Preliminary stage, each team must submit a short essay (Abstract) with the following criteria :
  - Abstract must be written in accordance with the format given by the committee.
  - Abstract must consist of min. 250 words and max. 500 words (not including bibliography)
  - Use abstract format that is available on PETROLIDA 2023's website.
  - Paper size : A4 Portrait
  - Margin : Left : 4 cm ; Right : 3 cm ; Top : 3 cm ; Bottom : 3 cm
  - Font type : Times New Roman
  - Font Size : 14 pt (title), 12 pt (body)
  - Line Spacing : 1.15
  - Alignment : Justify
  - Bibliography : APA 7th edition
  - It is prohibited to attach home university identity in any form.
6. Minimum content of the abstract must include introduction, recommendation and conclusion.

### Final Stage Guideline for Participants

The ten selected teams that have passed the preliminary stage will be obliged to complete the solution report and the presentation in the final stage. More details :

#### I. Solution Report and Presentation Deck Submission

1. Participants must submit a solution report and presentation deck in the final stage.
2. **Solution Report** must be submitted in (.pdf) file format to our website (petrolida.com). However, if the file exceeds 10 mb please kindly send the file to cscomp.petrolida@gmail.com **before 17th May 2023 at 23.59 WIB (GMT+7).**
3. **Presentation Deck** must be submitted in .pptx file format to our website (petrolida.com) **before 18th May 2023 at 12.00 WIB (GMT+7).**
4. Both the solution report and presentation deck must be written and delivered in English.
5. University or institution and SPE Student Chapter logo are not allowed to be included in the solution report or presentation deck.
6. The presentation deck is the result of the solution report, which will be presented in front of the judges on the presentation day of the competition. It is recommended that the problem-solving strategy in both the presentation deck and the project report demonstrate the following:
  - Background
  - Problem Identification
  - Solution Analysis
  - Impact and Risk Assessment
  - Implementation Strategy
  - Recommendation and Work Plan
7. Here are the following criteria for the solution report:
  - Paper size : A4 Portrait
  - Margin : Left : 4 cm ; Right : 3 cm ; Top : 3 cm ; Bottom : 3 cm
  - Font type : Times New Roman
  - Font Size : 14 pt (title), 12 pt (body)
  - Line Spacing : 1.15
  - Alignment : Justify
  - Bibliography : APA 7th edition
  - Maximum page of 20 (not including bibliography)
8. There is no maximum page for the presentation deck and any changes to the submitted presentation deck will incur a penalty.

## II. Presentation Day

1. The order in which the participants present on the day of the competition will be drawn during the technical meeting
2. The presentation along with the question and answer session in front of the judges will be conducted in English.
3. Presentation will be held offline in Institut Teknologi Sepuluh Nopember Surabaya (ITS).
4. Participants are required to wear formal attire with **no** almamater jacket during the presentation.
5. Each participant will be given a maximum of 3 minutes of preparation, 10 minutes of presentation, 20 minutes of question & answer session with the judges.
6. The presentation will be a closed presentation.
7. The moderator and timekeeper will directly cut and stop the team's presentation session when the maximum time limit has been reached.
8. Points will be deducted if the presentation exceeds the time allocated.
9. Judges' decisions are final and cannot be changed in any way.



### Judges Scoring Guideline

The following are the judging assessment criteria that applies in this competition:

#### 1. Preliminary Stage

Judges will conduct an assessment in the preliminary stage to screen participants who register for the competition based on their abstracts. Judges will select the best ten abstracts to determine the top ten participants who can qualify for the final stage. The preliminary stage assessment results are not factored into the final score to decide the winner of the competition. More details about abstract selection criteria :

No.	Parameter	Weight Percentages
1.	Relevancy	30%
2.	Content	50%
3.	Originality	10%
4.	Structure	10%

#### 2. Final Stage

The final stage assessment will be used to determine the competition's winner based on the participant's solution report and presentation. More details about solution report and presentation in the final stage judging criteria :

No.	Parameter	Weight Percentages
1.	Paper Technical	15%
2.	Analysis	40%
3.	Presentation Technical	30%
4.	Question and Answer Session	15%

## Tournament Officials

### 1. Judges

There will be 3 judges from collaborator partners with professional backgrounds that will assess the participant's efforts with points that will be used to count the final point based on the assessment criteria stated before.

### 2. Moderator

Moderator will guide the competition and judging, enforce the rules & regulations, and has the right to stop and continue the presentation.

### 3. Timekeeper

Timekeeper will remind the time left for each team to participate in every session.

### 4. Operator

Operator will be the one who is responsible for the presentation media used in the competition.

### 5. Competition Committee

The competition committee will be responsible for all the competition execution on the competition presentation day.

### 6. Liaison Officer

Responsible for giving information from committees to participants.

### Registration Guideline

1. The registration is open through Petrolida 2023 website (petrolida.com) from February 28th 2023 - March 29th 2023.
2. The participants are required to post an Instagram post according to the Case Study Competition PETROLIDA 2023 twibbon template that can be accessed on the petrolida.com/DelegatesTwibbon
3. Participants are obligated to create an email account to enter the competition and complete the verification through the registered email account.
4. Participants are required to fill in the team's data and submit the payment receipt at the end of the registration page.
5. Payment has to be paid in **FULL AMOUNT**
6. The Preliminary Stage Case Study Competition registration fee is **IDR 100.000/team (USD 10)**
7. The Top 10 Finalists (that will compete in the final stage) must pay an additional fee in the amount of:
  - a. **IDR 565.000/person (USD 40)** full hospitality
  - b. **IDR 400.000/person (USD 30)** non-accommodation
8. Payment has to be done via bank transfer to:
  - a. **BCA**  
7655189203  
a.n. Putri Nabila Adekamtari
  - b. **PayPal**  
@putriadekamtari  
a.n. Putri Nabila Adekamtari
9. **NO REFUND** after paying the registration fee.
10. After the confirmation, team participants are officially registered.
11. For any registration inquiries, please contact **cscomp.petrolida@gmail.com** or the contact person below.



### Keydates

- Registration : February, 28th - March, 29th 2023
- Case Release : March, 31th 2023
- Abstract Submission : April, 13rd 2023
- Finalist Announcement : April, 27th 2023
- Solution Report Submission : May, 17th 2023
- Presentation Deck Submission : May, 18th 2023
- Technical Meeting : May, 18th 2023
- Competition Presentation Day : May, 19th 2023
- Gala Dinner : May, 20th 2023

### Awards

The winners of Petrolida Case Study Competition 2023 will be announced at Petrolida Offline Gala Dinner and will be awarded a certificate and money. The winners will receive the following respective prizes :

- Champion : IDR 4.000.000
- 1st Runner-Up : IDR 2.500.000
- 2nd Runner-Up : IDR 1.500.000

\*All delegates will receive e-certificate

### Contact Person

Evania Christiana Febiani

(Coordinator of Case Study Competition Petrolida 2023)

Email : cscomp.petrolida@gmail.com

Line ID : evaniacf

WhatsApp : +6285645224700

# Paper Competition



## Competition Theme

"Evolving the Opportunity on Oil and Gas Industry to Ignite the Sustainability of Energy Transition"

### Sub-themes

Nowadays, the sustainability of the energy situation that we are facing forces us to adapt to the changes in order to survive and ignite in other ways. We have to be more aware of the problem for us to devise a solution. The energy crisis has made the growth of opportunity and new innovation in our oil and gas production constantly improve the values, which will be specified into three sub-themes, as follow :

1. **Oil and Gas Roles in Sustainable Development Goals (SDGs).**  
(Economics, Human Rights, Environmental Friendly, Technology)
2. **Green Technology Innovation to Reduce Emission in Oil and Gas Field.**  
(CCS/CCUS, Renewable, Clean Energy)
3. **Digitalization to Improve Efficiency in Oil and Gas Industry.**  
(EOR, Digitalizations, Efficiency)

### Competition Description

Paper Competition PETROLIDA 2023 is a competition that challenges undergraduate students to enhance their ability for conducting scientific research and bringing new and intriguing innovations to the oil and gas industry. The innovations are expected to be able to solve various energy issues in the form of research papers. PETROLIDA 2023 Paper Competition aims to benefit students greatly in their critical thinking skills and push them to brainstorm ideas as visionary to better the future. Moreover, participating teams must also be able to present the paper using proper PowerPoint materials on the presentation stage in front of the honorable judges. This year, PETROLIDA 2023 will be held **offline** in ITS.

### General Rules

1. All participants must be actively enrolled as undergraduate students (pursuing Bachelor/Diploma) from all universities and majors
2. This paper competition is open for members and non-members of the SPE Student Chapter.
3. Participants are allowed to be individually or in a team consisting of a maximum of 3 persons (led by one team leader).
4. One team is allowed to consist of different majors but must come from the same university.
5. Members of the team are not allowed to be replaced after the registration form is submitted.
6. Participants are not allowed to register themselves on two (2) different teams or more.
7. All participants must have a team name/name that will be used during the competition.
8. The content of the paper must be related to the main theme and at least one of the sub-themes is determined.
9. The topic of the abstract submitted has to be the same as the full paper.
10. The abstract, full paper, presentation slides, and verbal communications (all presentation sections) should be done in English.
11. Each team must send their Abstract by a maximum of April, 13th 2023 11.59 PM (WIB/GMT+7)
12. All data and documents submitted to PETROLIDA 2023 Paper Competition committee will not be returned under any conditions.
13. The judge's decision is absolute and unchangeable.
14. Any act of plagiarism, fabrication, and other violations is strictly prohibited.
15. At the time of submission, both the paper and presentation must not have been published in a professional journal. Paper that has been presented internally at the university, paper contests sponsored by universities and SPE sections, or paper contests in other organizations are eligible.
16. By enrolling in the competition, all participants agree to follow rules set by PETROLIDA 2023. If any of the points stated are not fulfilled, the participants will get immediate disqualification.
17. Competition rules are subject to change. Any rules, clarifications, or agenda changes will be announced to all participants via E-mail or at the technical meeting.



## Competition Format

1. The competition will be conducted **offline** at Sepuluh Nopember Institute and Technology.
2. The abstract, full paper, and presentation must not consist of the university name and/or logo of the participant.
3. PETROLIDA 2023 Paper Competition is divided into two stages: abstract selection, full paper submission, and presentation.
4. Professional judges will screen and have full rights to decide the **10 chosen abstracts** to go to the full paper submission and presentation stage.
5. The top 10 chosen finalists who will go further to the final stage will be announced through PETROLIDA 2023 official accounts and directly through participant's emails.

## First stage; Abstract Selection

### Abstract Guidelines

1. Abstract should be written in English
2. Consists of 250-350 words in one paragraph
3. Abstract Layout:
  - i. Paper size : A4 with portrait orientation
  - ii. Font type : Times New Roman
  - iii. Font size : 16 pt for the paper's title and 12 pt for body text
  - iv. Line spacing : 1.15 cm
  - v. Margin : 2.5 cm (Top, Bottom, Right, Left)
  - vi. Alignment : Justified
4. Contents:
  - i. Title of Paper
    1. Written in 16 pt font size, bold, center alignment, and capitalized on the first alphabet of each word
    2. The author's name written below the title, centered alignment, and in 10 pt font size
    3. The author's department/major written below the author's name, centered alignment, and in 10 pt font size
    4. The author's email written below the author's department/major, centered alignment, and in 10 pt font size
    5. University or institution's name and logo are not allowed
  - ii. Objectives and scope
  - iii. Methods and/or processes used
  - iv. Results and conclusions
  - v. Keywords contains of 3-5 words
5. Abstract file name format: **"Paper\_Abstract\_Team Name.pdf"**
6. Submitted in .pdf format to our website (petrolida.com) with subject : **"Paper\_Abstract\_Team Name" before April, 13th 2023 at 23.59 WIB (GMT+7)**
7. Abstract template can be accessed on the following link [here](#)
8. Any late submission will get some penalty

## Second Stage; Full Paper Submission

### Full Paper Guidelines

1. Full paper should be written in English
2. Consists of minimum 1000 words and must not exceed 15 pages (from the title to the reference) including pictures and diagrams.
3. Full Paper Layout:
  - i. Paper size : A4 with portrait orientation
  - ii. Font type : Times New Roman
  - iii. Font size : 12 pt
  - iv. Line spacing : 1.15 cm
  - v. Margin : 2.5 cm (Top, Bottom, Right, Left)
  - vi. Alignment : Justified
4. Contents:
  - i. Title of Paper
  - ii. Abstract
  - iii. Introduction
  - iv. Theory and definitions
  - v. Methods and/or processes used
  - vi. Data and results
  - vii. Conclusion
  - viii. References
  - ix. Attachment and/or appendix (if any)
5. Full paper file name format: **"Paper\_Full Paper\_Team Name.pdf"**
6. Submitted in (.pdf) format to our website (petrolida.com). However, if the file exceeds 10 mb please kindly send the file to paper.petrolida@gmail.com with subject : **"Paper\_Full Paper\_Team Name" before May, 17th 2023 at 23.59 WIB (GMT+7).**
7. Full Paper template can be accessed on the following link [here](#)
8. Any late submission will get some penalty

## Final Stage; Presentation

### Presentation Guidelines

1. The presentation slide consists of the summary of proposed paper
2. There is no limitation on the number of slides
3. The attached identities are the author's name, the author's university/institution only (no university/institution's logo), and PETROLIDA 2023 logo.
4. PETROLIDA 2023 logo can be accessed on the following link: [here](#)
5. Presentation slide file name format: **"Paper\_Presentation\_Team Name.ppt"**
6. Submitted in .pptx format to our website (petrolida.com) with subject : **"Paper\_Presentation\_Team Name" before May, 18th 2023 at 12.00 WIB (GMT+7).**
7. Any late submission will get some penalty

## Judging Criteria

### 1. Abstract

Criteria	Percentage
Relevancy	20%
Originality	15%
Clarity	5%
Content	50%
Feasibility	10%

### 2. Full Paper

Criteria	Percentage
Alignment with the abstract	15%
Clarity	10%
Content	45%
Idea Evaluation	30%

### 3. Presentation

Criteria	Percentage
Technical	30%
Verbal	30%
QnA	40%

### 4. Penalty

Delay duration	Score deduction
0 - 30 minutes	-5
31 - 60 minutes	-10
61 minutes < delay duration < a day	-20
> a day	Disqualified



### Tournament Officials

**1. Competition Committee**

The competition committee will be in charge of all competition execution on Competition Day.

**2. Judges**

Judges will award points for the finalist's efforts, which will be used to calculate the final point based on the portion stated previously.

**3. Liaison Officer (LO)**

The liaison officer will assist the finalist's needs mentally and technically throughout the PETROLIDA 2023 series of events.

**4. Moderator**

During the competition day, the moderator will act as a guide throughout the presentation including the judging and Q&A sessions.

**5. Operator**

Operator will be the one who is responsible for the presentation media used in the competition

**6. Time Keeper**

The timekeeper will tell the participants about the time left for each team to participate in every session.

## Registration

1. The registration is open through Petrolida 2023 website (petrolida.com) from February 28th 2023 - March 29th 2023.
2. The participants are required to post an Instagram post according to the Paper Competition PETROLIDA 2023 twibbon template that can be accessed on the petrolida.com/DelegatesTwibbon
3. Participants are obligated to create an email account to enter the competition and complete the verification through the registered email account.
4. Participants are required to fill in the team's data and submit the payment receipt at the end of the registration page.
5. Payment has to be paid in **FULL AMOUNT**
6. The Preliminary Stage Paper Competition registration fee is **IDR 100.000/team (USD 10)**
7. The Top 10 Finalists (that will compete in the final stage) must pay an additional fee in the amount of:
  - a. **IDR 565.000/person (USD 40)** full hospitality
  - b. **IDR 400.000/person (USD 30)** non-accommodation
8. Payment has to be done via bank transfer to:
  - a. **BCA**  
7655189203  
a.n. Putri Nabila Adekamtari
  - b. **PayPal**  
@putriadekamtari  
a.n. Putri Nabila Adekamtari
9. **NO REFUND** after paying the registration fee.
10. After the confirmation, team participants are officially registered.
11. For any registration inquiries, please contact [paper.petrolida@gmail.com](mailto:paper.petrolida@gmail.com) or the contact person below.

### Key Dates

- |                           |                                    |
|---------------------------|------------------------------------|
| • Registration            | : February 28th - March 29th, 2023 |
| • Abstract Submission     | : April 13rd, 2023                 |
| • Finalist Announcement   | : April 27th, 2023                 |
| • Full Paper Submission   | : May 17th, 2023                   |
| • Presentation Submission | : May 18th, 2023                   |
| • Technical Meeting       | : May 18th, 2023                   |
| • Competition Day         | : May 19th, 2023                   |
| • Gala Dinner             | : May 20th, 2023                   |

### Awards

The winners of Petrolida Paper Competition 2023 will be announced at Petrolida Offline Gala Dinner and will be awarded a certificate and money. The winners will receive the following respective prizes :

- |                 |                 |
|-----------------|-----------------|
| • Champion      | : IDR 4.000.000 |
| • 1st Runner-Up | : IDR 2.500.000 |
| • 2nd Runner-Up | : IDR 1.500.000 |

\*All delegates will receive e-certificate

### Contact Person

Hanna Ressica Putri  
(Coordinator of Paper Competition Petrolida 2023)  
Email : paper.petrolida@gmail.com  
Line ID : ressicapt  
WhatsApp : +62 821-1229-7323

# Petrosmart Competition



## Competition Theme

"Igniting Curiosity About The Oil and Gas Industry  
as The Fulfillment of Future Energy Needs"

### Competition Description

Petrosmart Competition is a quick-fire rounds competition where teams from various universities compete against one another to challenge their knowledge by answering questions covering technical and non-technical aspects of oil and gas industry. There will be 4 rounds: online elimination, preliminary round, semifinal round, and final round. Participants will have to answer questions or cases that will be packed in each exciting round of Petrosmart. Using a game show called Mystery Board Game Show, the team with the highest score by the final round will be named as the winner.

### General Rules

1. Petrosmart Competition Petrolida 2023 will be conducted online for elimination round and offline for the rest of the rounds.
2. Registration is open to all undergraduate students in Indonesia or abroad who's currently studying any major.
3. Each university is allowed to send it's delegates a maximum of 3 (three) teams.
4. Each team consists of 3 players with one team captain, with no substitute.
5. Each participant is allowed to join only one team from the same university.
6. Total participants for the preliminary round are 12 teams (if the registration participants exceed 12 teams, there will be an online elimination).
7. All rounds will be conducted offline in one room that consists of the active team players, judges, and competition committees.
8. Correct answers are determined from the answer key and if participant's answers are different from the answer key, then the correct answers are determined by the judges.
9. If participants have additional questions, each team is allowed to ask LO in competition.
10. Brackets, any additional information and change about rules will be informed through Petrolida's official social media.

## Competition Format

### Online Elimination Round

1. Online Elimination round will be held on April 15th, 2023.
2. Online Elimination round will be using a website-based quiz with a date and time limit.
3. Each team must finish 25 short answer questions which consist of 5 topics (trivia, production, exploration, offshore, and drilling).
4. The quiz link will be sent to your team leader's email address on April 14th, 2023.
5. Once the link is clicked, you must write down your team's name and password.
6. The time limit for completing the online quiz is 8 minutes. The timer will be provided at the top of the quiz. When the time limit has been exceeded, the answer will be automatically submitted.
7. The password will be given via email on D-Day. The password is a one-time password that cannot be reused.
8. If there are any technical problems (network, device, etc.), you may contact the committee for a one-time tolerance in the form of another link and password which leads to different questions.
9. Searching for answers from the internet, books, another team or ask a friend, and another cheat sheet are prohibited.
10. The result for the top 12 of the Online Elimination will be announced on April 27th 2023.

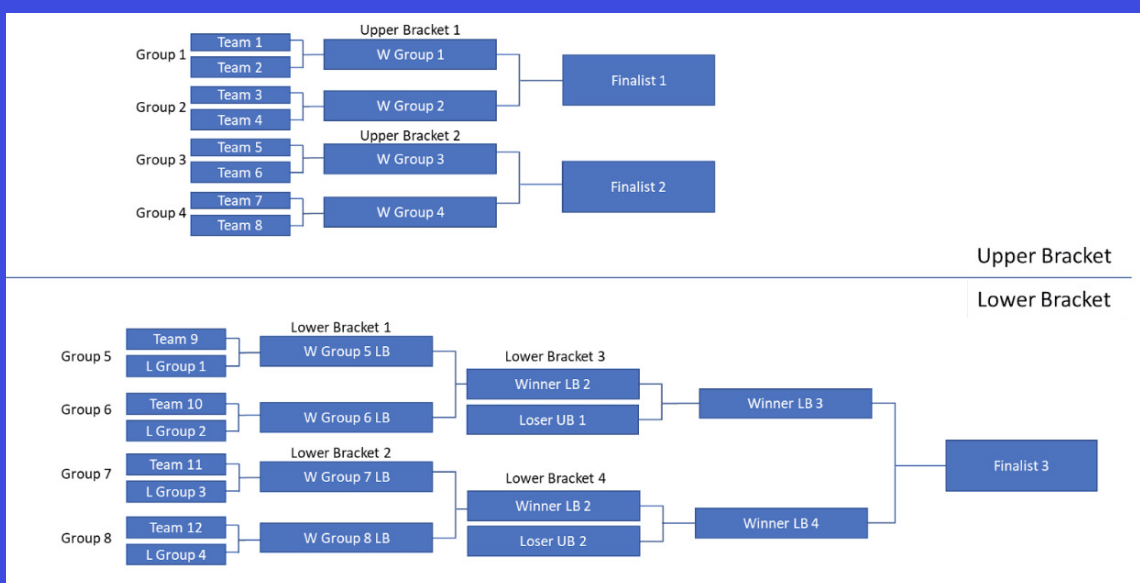
### Preliminary Round

1. There will be 12 teams competing in the preliminary round
2. Preliminary round will be held at D-Day of the competition on 19th May 2023 in Sepuluh Nopember Institute of Technology (ITS).
3. Preliminary round will be using crossword puzzle containing 10 questions that must be completed by all teams.
4. The committee will provide question papers and pens.
5. All teams will be given 10 minutes to answer the crossword puzzle questions.
6. The Liaison Officer of each team will accompany the team during the preliminary round and must be a timekeeper.
7. Scores of participants in this round will be ranked to determine the upper bracket team and the bottom bracket team. All the twelve (12) teams will go to the semifinals round.



## Semi-final Round

1. There will be 12 teams competing in the semi-final round.
2. There will be a toss-up and bonus question in each stage.
3. The order of team will be decided by random generator,
4. The semi-final round will be conducted in dual elimination (upper and lower bracket).
5. Committees will provide 16 envelopes which consist of 15 toss up questions and bonus questions respectively.
6. Each envelope only can be chosen each round and decided by a random generator.
7. Each round will be given a maximum of 15 minutes to play this round.
8. The brackets used for this round are shown below.



## Final Round

1. There will be 3 teams competing in the final round
2. The final round will be packed in a Mystery Board Game show
3. Questions type used in this round is toss-up question
4. There will be 30 questions provided behind a numbered box with the amount 5 questions for each topic including Exploration, Drilling, Production, Offshore, Trivia, and Random (consist of all topics).
5. Participants will have the opportunity to choose an envelope randomly
6. Envelope choosing order will be determined using random generator before the final round start (further explanation in technical meeting)
7. The order only for choosing envelope
8. A team is allowed to choose a envelope after the moderator called out the team's name
9. After the envelope was chosen, the moderator will read the question, and scores the team will get and toss-up questions rule are applied
10. If there is no answer within 5 seconds (15 seconds for calculation questions) the envelope will not be opened again and continue to open next envelope
11. There will be rewarded points for the correct answer
12. For incorrect answer will reduced - 100 points (minimal given score)
13. A team who can answer 4 boxes correctly can choose between doubling the points of the box or reduce all opponents' points by - 100
14. The final round will be limited for 30 minutes (time starts right after the first team choose a box)
15. The winning team will be decided by the amount of total score. Team with the highest score from final-round will be the winner
16. If two teams had the same final score, there will be one additional toss-up question to decide the winner (will be explained in technical meeting)
17. This is the illustration of final game show

FINAL ROUND PETROLIDA 2023					
DRILLING	TRIVIA	EXPLORATION	PRODUCTION	OFF-SHORE	RANDOM
A	A	A	A	A	A
B	B	B	B	B	B
C	C	C	C	C	C
D	D	D	D	D	D
E	E	E	E	E	E
SCORE =					

## Tournament Officials

- **Judges**  
Judges will assess the participant's efforts with points that will be used to count the final point based on the portion stated before.
- **Moderator**  
Moderators will read the questions, state the rules of the competition explicitly, ask the judges to determine the correctness of the team's answer, declare score reward and deduction, and call out the team name who has the right to answer.
- **Operator**  
Operator will be the one who is responsible for the presentation media used in the competition
- **Score Keeper**  
The score keeper will keep and record the official score for each team.
- **Time Keeper**  
Time keeper will tell the participants about the time left for each team to participate in every session.
- **Competition Committee**  
The Competition committee will be responsible for all the competition execution on the Competition Day.
- **Liaison Officer**  
Liaison officers will assist delegates' needs mentally and technically throughout the Petrolida 2023 series of events.

## Question Type

Questions that will be given consist of 5 topics (exploration, offshore, production, drilling and trivia) about petroleum. Question's source could be from published journals and papers; books and e-book; Schlumberger oil field glossary; PetroWiki glossary; and other valid sources.

## Toss-up Questions

- This type of question available in semi-final
- Each team may buzz in to answer a toss-up question at any time after the moderator has begun reading the question
- If the participants buzz in before the moderator has finished reading, the moderator will stop reading the question and call out the team's name who has buzzed in. Then, the participant who is called out, is allowed to give their answer.
- If the answer is correct, there will be rewarded points. If the answer is incorrect, there will be a deduction point, and the moderator will continue reading the question. Another team will have opportunity to buzz in
- If the moderator has finished reading the question, participants will have 5 seconds to buzz in. If the answer is correct, there will be rewarded points. If

the answer is incorrect, there will be deduction points, and the other team will have opportunity to buzz in

- An answer for a toss-up question must be given within 5 seconds (15 seconds only for calculation question) after the moderator called out a team's name. No answer within 5 seconds is considered an incorrect answer.
- If the participants give the answer before the moderator called out their team's name, moderator reserve the right to invalidate that participant's response, turning the question over to the other team

### **Bonus Questions**

Bonus questions only available in semi-final round

- A team will get one bonus question if they can answer 3 top up questions correctly in a row and will get one more bonus question if it continues up to 5 top up question in a row
- Bonus question will be read by the moderator with a particular instruction after all the main questions have been read
- Participants will have 5 seconds to give the answer after the moderator has finished reading the question (for calculation question will be given 15 seconds)
- Participants can deliver the answer to this question directly
- Team will be rewarded points if the answer is correct
- If the answer is incorrect or no answer, there will be no point deduction

### Scoring Type

- Online Elimination Round

Correct	Incorrect	Blank
15	-5	0

- Preliminary Round

Correct	Incorrect	Blank
10	0	0

- Semifinal Round

Question Type	Correct	Incorrect	Blank
Toss Up Question	20	-10	-5
Bonus Question	5	0	0

- Final Round

Correct	Incorrect	Blank
Will get amounts of point at the box chosen	Will get reduction point same as the box chosen	0

### Equipment Requirements

1. For the online elimination, participants must have electronic devices (PC is preferable).
2. Also, during online elimination, participants need to prepare a sufficient internet connection and device batteries during the competition.
3. Textbooks, e-book, cheat sheets, stationary, internet browsers, gadgets, and any electronic devices are **PROHIBITED** during the competition.

### Ethics and Conduct

1. Please be punctual. Any participant who is late to the venue (will be given 5 minutes delay time) will not be able to play in the current round.
2. All teams must be concerned with the guidance from their LO and to be fast respond on the competition day.
3. All participants seated in good manners and answered when appointed by the moderator.
4. Participants who wish to ask the judges about their decisions must raise their hand and wait for the moderator to respond.



5. Any intimidation from participants to other participants and tournament officials will result in disqualification.
6. Any act of cheating will also result in disqualification.

### Registration

1. The registration is open through Petrolida 2023 website (petrolida.com) from February 28th 2023 - March 29th 2023.
2. The participants are required to post an Instagram post according to the Petrosmart Competition PETROLIDA 2023 twibbon template that can be accessed on the petrolida.com/DelegatesTwibbon
3. Participants are obligated to create an email account to enter the competition and complete the verification through the registered email account.
4. Participants are required to fill in the team's data and submit the payment receipt at the end of the registration page.
5. Payment has to be paid in **FULL AMOUNT**
6. The Online Stage Petrosmart Competition registration fee is **IDR 150.000/team (USD 15)**
7. The Top 12 Finalists (that will compete in the preliminary round, semi-final round, and final round) must pay an additional fee in the amount of:
  - a. **IDR 565.000/person (USD 40)** full hospitality
  - b. **IDR 400.000/person (USD 30)** non-accommodation
8. Payment has to be done via bank transfer to:
  - a. BCA  
7655189203  
a.n. Putri Nabila Adekamtari
  - b. Paypal  
@putriadekamtari  
a.n. Putri Nabila Adekamtari
9. **NO REFUND** after paying the registration fee.
10. After the confirmation, team participants are officially registered.
11. For any registration inquiries, please contact [psc.petrolida@gmail.com](mailto:psc.petrolida@gmail.com) or the contact person below.

### Key Dates

- |  |                                    |
|--|------------------------------------|
| ● Registration                           | : February 28th – March 29th, 2023 |
| ● Technical Meeting for Online Selection | : April 14th, 2023                 |
| ● Online Elimination Round               | : April 15th, 2023                 |
| ● Finalists Announcement                 | : April 27th, 2023                 |
| ● Technical Meeting for Competition Day  | : May 18th, 2023                   |
| ● Competition Day                        | : May 19th, 2023                   |
| ● Gala Dinner                            | : May 20th, 2023                   |

### Awards

The winners of Petrolida Petrosmart Competition 2023 will be announced at Petrolida Awarding Night and will be awarded a certificate and money. The winners will receive the following respective prizes:

- Champion : IDR 5.000.000
- 1st Runner-Up : IDR 3.500.000
- 2nd Runner-Up : IDR 2.500.000

\*All delegates will receive e-certificate

### Contact Person

Ayu Rahma Wandira

(Coordinator of Petrosmart Competition Petrolida 2023)

Email : [psc.petrolida@gmail.com](mailto:psc.petrolida@gmail.com)

WhatsApp : +62 857-7967-7267

# Oil Rig Design Competition



## Competition Theme

“Innovating Sustainable Oil Platform to Strengthen Energy Security and Maximize Energy Potential”

### Competition Description

Oil Rig Design Competition is a competition that challenges the participants to combine their sense of engineering and creative thinking in designing an innovative semi-submersible platform for a specific offshore oil field. Participants are expected to make a project explanation of their semi-submersible oil rig based on the specific situation that was given by the committee. This competition aims to develop participants' knowledge to overcome all challenges in the given field. In the final round, participants are also expected to make a model of a semi-submersible oil rig that will be tested and presented in front of the judges.

### Case Overview

The East Natuna gas field in Indonesia is planned to be developed to meet the increasing natural gas demand of Indonesia and economic growth. The Natuna gas field which was discovered in 1973 is located in Indonesian waters about 225 kilometers northeast of Natuna Island in the Natuna Sea. The water depth in the field area is approximately 475 feet. This field has 222 TCF of gas reserves consisting of 71% CO<sub>2</sub>, 28% hydrocarbons (70% methane), 0.5 % H<sub>2</sub>S and 0,4 % N<sub>2</sub> . Participants must develop alternative energy and find ways to reduce CO<sub>2</sub> in the natural gas. The crest of the gas reservoir is at a depth of approximately 8,625 feet subsea. Gas consumers consist of households, industries, electricity, transportation, and commercial sectors across Indonesia, with the largest concentration in Java. Therefore, the utilization of East Natuna gas should be supported by the development of gas pipelines from East Natuna to Java Island. Participants must design a perfect semi-submersible rig and bring ideas or innovation to solve the problem stated above and also maximize the production rate with optimum cost.

### General Rules

1. Oil Rig Design Competition Petrolida 2023 is open to all active undergraduate students; students under academic sanctions are not allowed to participate in this competition.
2. Each university is allowed to send more than two teams for the Project Explanation submission. However, only three teams (maximum) from the same university will persist to the final presentation stages.
3. Each team consists of 4 or 5 people based on the registration form. Members of the team are allowed from different majors but must be from the same university.
4. Once the registration form is submitted, member of the team is not allowed to be replaced and each member of the team can only be part of 1 team
5. Each member of the team can only be part of 1 team
6. Each team must submit a project explanation **before April 13<sup>th</sup>, 2023 at 23.59 WIB (GMT +7) with the guidelines listed below**
7. After the Project Explanations are submitted, the committee will select the **Top Eight** Project Explanation and announce it directly through participants' email. The teams that selected to be **Top Eight** will be The Finalists of Petrolida Oil Rig Design Competition 2023
8. All Finalists of Petrolida Oil Rig Design Competition 2023 must attend the technical meeting that will be held by the 18<sup>th</sup> of May 2023.
9. Every member of the finalists must attend the competition day by the order determined at the technical meeting and must wear formal attire.
10. The judges' decision is absolute and inviolable in every stages of Petrolida Oil Rig Design Competition 2023
11. Any violation of the rules will face the consequences determined by the committee such as point deductions or even disqualification.
12. Competition results will be announced on Petrolida Gala Dinner 2023
13. Competition rules are subject to change. Any change of rules, clarifications, or agenda will be announced to all participants via e-mail or at the technical meeting.

### Competition Format

The Petrolida 2023 Oil Rig Design Competition will come in a different format from the last year. The competition will be divide into two stages, such as

#### 1. Preliminary Stage

Participants must submit the Oil Rig Design Project Explanation that should not consist of university name/or logo and attribute, only team members' names are allowed. The rest regarding the project explanation format is listed in the Project Explanation Guideline. The **top 8** teams with the highest score will advance to the final round.

## 2. Final Round

There will be 8 teams in the final round. The finalists are required to create a presentation based on the Project Explanation. Presentation file must be submitted with the deadline at a specified time. On the presentation day, the finalists are required to present the presentation file they have submitted in front of the judges and also will conduct the rig test. The judges are allowed to ask questions based on the solutions presented to the finalist. Top three teams with the highest score based on the judges assessment will be declared the winners of the Petrolida 2023 Oil Rig Design Competition.

### Project Explanation Guideline

Participants will be given a study case and the exact location of the oil rig. Participants will send their project explanation to be selected in the final stage and wait for the final stage announcement. There will be a total of 8 teams who can enter the final stage

1. Content of the Project Explanation must consist of the name and type of platform concept of design (related to the topic) and rig details such as:
  - a. Field Explanation
  - b. Innovation
  - c. Structure
  - d. Drilling system (5)
    - Rotary System
    - Hoisting System
    - Circulating System
    - Power System
    - Blow Out Preventer (BOP)
  - e. HSE
  - f. Economical Analysis
2. The Project Explanation must not contain any University or alma mater/Organization/Student Chapter attributes.
3. The Project Explanation should be written in **English**.
4. The Project Explanation should be submitted with the following format (ORDC\_University Name\_Team Name\_Team Representative Name)  
Example : ORDC\_Institut Teknologi Sepuluh Nopember\_Yellow Fin\_Napoleon Bonaparte Nakiva
5. Project Explanation must be submitted by **maximum of April 13th, 2023, 23.59 WIB (GMT+7)** on Petrolida 2023 Official Website (<https://www.petrolida.com/competition/oil-rig-design>). However, if the file exceeds 10 mb please kindly send the file to [ordc.petrolida@gmail.com](mailto:ordc.petrolida@gmail.com)
6. The **registrant** of Project Explanation must be the **team leader**.
7. The **maximum file size** of the Project Explanation is **50 MB**.
8. Failure to comply with the rules stated above may result in points reduction.



### Presentation Guideline

The 8 teams that provide the best project explanation will then advance to the final stage on competition day. At this stage, the teams will give a presentation of the project explanation, which will then be held by a Q&A session with the judges. Teams will make a presentation in the order that has been determined at the technical meeting held before the presentation stage.

1. The closed presentation stages will be held offline with 10 minutes presentation and 20 minutes of Q&A session with the judges.
2. All forms of communication during presentation stages, including the Q&A session and presentation material must be in English.
3. The content presented must be in accordance with the Project Explanation that was already sent to the committee before.
4. Every member of the finalists must attend the presentation stage.
5. During the presentation, the whole team or the representative is allowed to be the speaker of the presentation test.
6. The Presentation should be submitted with the following format (ORDC\_University Name\_Team Name)  
Example : ORDC\_Institut Teknologi Sepuluh Nopember\_Yellow Fin
7. Presentation must be submitted by **maximum** of **May 18th, 2023, 12.00 WIB (GMT+7)** on Petrolida 2023 Official Website  
(<https://www.petrolida.com/competition/oil-rig-design>)
8. The **registrant** of Project Explanation must be the **team leader**.
9. The other technical presentation guidelines will be mentioned and explained at the technical meeting

### Model Criteria

1. The platform must be a semi-submersible rig type that can float on the water
2. Participants must build the platform based on the **Model's Criteria** and constraints stated by the committee
3. The top side of every model must be able to be separated from the deck to be tested on the model test and to prevent any damage that may occur during the motion test
4. The opposing team must not interfere other teams during test
5. The model platform will not be allowed to participate in the model test session if the size of the model is not in accordance with the dimensional provision, **if the size of the model is smaller with the specified dimensions, it is not processed to follow the model test and the value will be considered 0. If the model bigger of the specified dimension will be subject to a point reduction.**

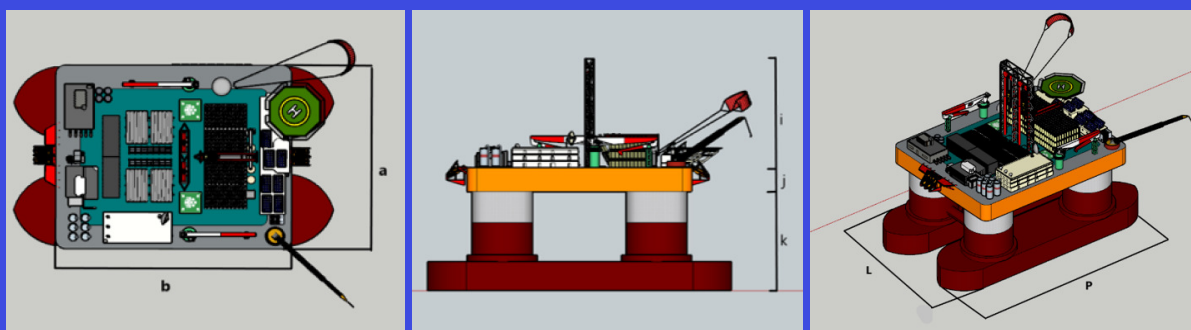
### Model Specification

The dimensional provisions of the top deck are as follows:

1. Length (b) : 60 – 65 cm
2. Width (a) : 65 – 70 cm

The dimensional provisions of the model are as follows:

1. Length (P) : 75-80 cm
2. Breadth (L) : 65-70cm
3. Pontoon + Leg, (k) of the rig must be 30 cm
4. Depth of the deck (j) must be 5 cm
5. Height of the rig (i+j) must be less than 60 cm (without legs and pontoon)



### Judging Criteria

#### Preliminary Scoring

PARAMETER	PERCENTAGE (%)
<b>Project Report</b> The score is based on how project explanation matches with the field challenges and its features including the drilling sector, design, and its economical analysis.	50
<b>Design Accuracy</b> The score is based on how informative and structured the project explanation is delivered and according to its implementation in life and its compliance with competition regulations.	50

### Best Design Award

The evaluation of the Oil Rig Design Competition Best Design Award will be based by the score of Model Detail, Model Realism, and the voting that will be held at the ORDC venue at ITS

### Tournament Officials

1. Judges  
There will be 3 judges, each of them assessing a different aspect. Assessments will depend on settled rules and criteria.
2. Moderator  
The moderator will guide the entire competition and have a right to interrupt during the competition.
3. Operator  
The operator will be responsible for the presentation media that is used during the competition.
4. Timekeeper  
The timekeeper will keep the time accurately and fairly during the competition and notify the remaining time for each session.
5. Competition Committee  
The Competition Committee will be responsible for all the competition execution on the Competition Day.
6. Liaison Officer  
The Liaison Officer will assist delegates' needs mentally and technically throughout the competition since the teams announced as the finalist

### Registration

1. The registration is open through Petrolida 2023 official website (<https://www.petrolida.com/competition/oil-rig-design>) from February 28th – March 29th, 2023
2. The participants are required to post an Instagram post according to the Oil Rig Design Competition PETROLIDA 2023 twibbon template that can be accessed on the petrolida.com/DelegatesTwibbon
3. Participants are required to submit the payment receipt at the registration website
4. The registration fee for Project Explanation Submission Oil Rig Design Competition is **IDR 150.000/team (USD 15)**
5. Finalists of Petrolida Oil Rig Design Competition will be announced on April 27th, 2023 via Petrolida 2023's official social media and directly to participants' email.
6. Top Eight Project Explanation (that will compete in the final presentation stage) are responsible to confirm their attendance and must pay the finalist fee in the amount of :

**IDR 565.000/person (USD 40) full hospitality**

**IDR 400.000/person (USD 30) non-accommodation**

7. All kind of payments (Project Explanation and Finalist fees) has to be paid once in **FULL AMOUNT**
8. Payment has to be done via bank transfer to:
9. Payment has to be done via bank transfer to:
  - a. BCA  
7655189203  
a.n. Putri Nabila Adekamtari
  - b. Paypal  
@putriadekamtari  
a.n. Putri Nabila Adekamtari
10. There will be **NO REFUND** after paying all kind of payments
11. For any registration inquiries, please contact the contact person below.

### Key Dates

- |   |                                  |
|---|----------------------------------|
| • Registration                            | : February 28th–March 29th, 2023 |
| • Project Explanation Case Distribution   | : March 24th 2023                |
| • Project Explanation Submission Deadline | : April 13th, 2023               |
| • Finalists Announcement                  | : April 20th, 2023               |
| • Presentation Submission Deadline        | : May 18th, 2023                 |
| • Technical Meeting & Simulation          | : May 18th, 2023                 |
| • Competition Day                         | : May 19th, 2023                 |
| • Gala Dinner                             | : May 20th, 2023                 |

### Awards

The winners of Petrolida Oil Rig Design Competition 2023 will be announced at Gala Dinner and will be awarded a certificate and money. The winners will receive the following respective prizes:

- |                     |                 |
|---------------------|-----------------|
| • Champion          | : IDR 5.000.000 |
| • 1st Runner-Up     | : IDR 3.000.000 |
| • 2nd Runner-Up     | : IDR 2.000.000 |
| • Best Design Award | : IDR 750.000   |

\*All delegates will receive e-certificate

### Contact Person

I Gde Krishnananda Wibawa  
(Coordinator of Oil Rig Design Competition Petrolida 2023)  
Email : [ordc.petrolida@gmail.com](mailto:ordc.petrolida@gmail.com)  
WhatsApp : +628111691198

# Fracturing Fluid Design Competition



## Competition Theme

“Enhancing Oil and Gas production efficiency through a modern fracking approach to sustain future energy supply and maintain the safety of the environment.”

### Competition Description

Fracturing Fluid Design Competition is a competition that tests university student's analysis and realization to create/design the most suitable fracture fluid mixture to optimize well production based on the case given. Each team will construct their paper based on their analysis on the given case and create their fluid design real time in a laboratory that will be presented in front of the professional judges to see their design performance. Fracturing Fluid Design Competition was first launched in 2018 and known to be the first to ever conduct this form of event across Pacific Asia. In this year's series, Petrolida 2023 will be held OFFLINE in Surabaya.

### Case Overview

Charlie-X Well requires a stimulation to recover the hydrocarbon resource. In this situation, Charlie-X are dealing with certain potential challenges that occur such as thick shale barriers above and below reservoir zone. Participants are required to be designing the appropriate fracturing fluid according to the data given and the challenges that occur while maintaining their environmental hazard and economical consideration.



### General Rules

1. The Fracturing Fluid Design Competition PETROLIDA 2023 will be held in an offline scheme.
2. This competition is open to all active undergraduate students
3. Participants must form a team that consists of three members from the same university (different majors are allowed).
4. Participants who have already registered for this competition are not allowed to participate in other Petrolida competitions.
5. Members of the team are not allowed to be replaced after the registration form is submitted.
6. All presentations, verbal communications, documentary instructions for the contest shall be done in English.
7. PETROLIDA 2023 Fracturing Fluid Design Competition consists of 2 stages, the preliminary stage and the final stage (5 teams).
8. All entries and administration documents will become the property of PETROLIDA 2023 and will not be returned.
9. The organizing committee reserves the right to final explanation. Any emergent change, instruction, and annex will be announced to all competitors through participants' email or during the technical meeting.
10. Competition rules are subject to change. Any change of rules, clarifications, or agenda will be announced to all participants via website or at the technical meeting.
11. All decisions made by the judges are absolute and indisputable.
12. Fail to obey the rules, format, and late submission may receive deductions of points or even disqualification.
13. Plagiarism is not tolerated and will result in disqualification at once.

### Competition Format

1. The purpose of this contest is to express their engineering capability, analytical thinking, and innovate brilliant ideas by integrating the performance of fracture fluid to encounter the issues regarding production and well stimulation in the oil and gas industry.
2. Fracturing Fluid Design Competition PETROLIDA 2023 is divided into 2 stages, which are **Preliminary Round and Grand Final**

### Preliminary Stage Guideline

1. In the Preliminary Round, each team is mandatory to write a full paper related to the given case.
2. The Preliminary Round consists of Fluid Design paper.
3. Fluid Design paper is a paper to answer the given case with a fluid design. It should contain, but not limited to, brief background, design idea, detailed composition, economical consideration, advantages, and conclusion.
4. The submission paper must be written in English and limited to 10 pages only.
5. The submission paper will be judged and scored by judges.
6. Papers format:
  - Font type, size: Times New Roman, 12 pt
  - Line Spacing: 1.5 cm
  - Margin: 2 cm
  - Paragraph alignment: Justify
  - Paper size, orientation: A4, portrait
  - File type: \*.pdf
  - Reference format: Harvard Style
7. Papers should be submitted to Petrolida's official website with the following file name :
  - File Name: [Team Name] - [University] - Preliminary Submission FFDC
  - Ex:  
*Filename: Team FFDC - Petroverse University - Preliminary Submission FFDC*
8. The full paper must be submitted **before April 20<sup>th</sup>, 2023 at 11.59 PM [GMT +7]**.
9. Failure to comply with the rules stated above may result in points being deducted.
10. Based on the judges' scoring, only the best 5 (five) teams will proceed to the Grand Final.
11. The finalists (5 teams) will be announced on 27<sup>th</sup> April 2023 via Petrolida 2023 official social media account and directly to the participant's email.
12. Any change of rules or timeline will be informed via email or the official website.

### Final Stage Guideline

Final stage consists of a presentation phase. Participants will be provided with a laboratory service to test their fluid design. Participants must send their list of materials, methods, and parameters to be tested in the laboratory by laboratory assistants.

### Presentation Phase

1. The presentation phase will use a "Close Presentation" where only 1 team, judges, and organizing committees are in the room.
2. The Presentation phase will be held offline
3. All forms of communication during the presentation as well as the presentation material must be presented in English.
4. The Powerpoint file of each team must be submitted **before May 18<sup>th</sup>, 2023 at 12.00 WIB [GMT +7] via Petrolida's Official Website**. However, if the file exceeds 10 mb please kindly send the file to [ffdc.petrolida@gmail.com](mailto:ffdc.petrolida@gmail.com)
5. Each team presents their PowerPoint after being invited by the moderator. The presentation order will be shuffled during the technical meeting.
6. Presentation time is 15 minutes, the time calculation starts when the moderator invites participants to present.
7. After the presentation finished, the moderator welcomed the judges to give their questions to the team within 15 minutes.
8. The time for presentation and Q&A session allowed to finish less than the specified time, but not allowed more than the specified time. If times up, the session will be stopped by the moderator.

### Judging Criteria

These are the following judging criteria for competition:

#### Paper (40%)

PARAMETER	Percentage (%)
<b>Introduction and Problem Identification</b> Data, characteristic, case problem identification	15%
<b>Stimulation Method</b> Methodology of stimulation, uses of equipment and materials, properties of the target	30%
<b>Economical Consideration</b> Types of material used, efficiency, and overall price	30%
<b>Possibility of Application</b> Applicability of the fluid	25%

## Presentation performance (60%)

PARAMETER	Percentage (%)
<b>Presentation Content</b> Design and content of the presentation, including problem identification, method used, economical consideration, fluid report and conclusion	40%
<b>Presentation Manners and Language</b> Participants attitude and language while delivering their presentation and responding the judges	20%
<b>Question and Answer</b> Capability of answering all of the questions from judges	40%

## Point Reduction

### A. Preliminary Round

- Punctuality**

If a team exceeds the time of submission that has been given, there will be a point reduction as listed below:

Hours Exceeded	Point Reduction
1 - 2	-5
3 - 5	-15
6 - 12	-25

- Pages Exceed**

If a team submits a paper that exceeds the stated page limit, there will be a point reduction as listed below:

Conditions	Point Reduction
More than 10 pages	-5

### B. Grand Final

- Presentation Phase**

#### Time of Presentation

If a team exceeds the time for presentation (15 minutes) that has been given, there will be no additional time for the Questions and Answers session, and there will be point reduction as listed below based on the amount of time that has exceeds the limit.

Minutes exceed	Point Reduction
1-5	-5
6-10	-10

### Tournament Officials

#### 1. Judges

Judges will assess the participant's works with points based on the judging criteria and all of their decisions and scoring during the competition will be absolute.

#### 2. Moderator

The moderator will guide the entirety of the presentation phase, from enforcing the rules and guidelines to controlling the flow (stop, pause, and resume) of the presentation.

#### 3. Time Keeper

Time keeper will tell the participants about the time left for each team to participate in every session.

#### 4. Operator

Operator will be the one who is responsible for the presentation media used in the competition.

### Registration

1. The registration is open through Petrolida 2023 website ([petrolida.com](http://petrolida.com)) from February 28th 2023 - March 29th 2023.
2. The participants are required to post an Instagram post according to the Fracturing Fluid Design Competition PETROLIDA 2023 twibbon template that can be accessed on the [petrolida.com/DelegatesTwibbon](http://petrolida.com/DelegatesTwibbon)
3. Participants are obligated to create an email account to enter the competition and complete the verification through the registered email account.
4. Participants are required to fill in the team's data and submit the payment receipt at the end of the registration page.
5. Payment has to be paid in **FULL AMOUNT**
6. The Preliminary Stage Fracturing Fluid Design Competition registration fee is **IDR 150.000/team (USD 15)**
7. The Top 5 Finalists (that will compete in the final stage) must pay an additional fee in the amount of:
  - a. **IDR 565.000/person (USD 40)** full hospitality
  - b. **IDR 400.000/person (USD 30)** non-accommodation
8. Payment has to be done via bank transfer to:
  - a. BCA  
7655189203  
a.n. Putri Nabila Adekamtari
  - b. PayPal  
@putriadekamtari  
a.n. Putri Nabila Adekamtari
9. **NO REFUND** after paying the registration fee.
10. After the confirmation, team participants are officially registered.

11. For any registration inquiries, please contact [ffdc.petrolida@gmail.com](mailto:ffdc.petrolida@gmail.com) or the contact person below.

### Key Dates

- |                                |   |
|--------------------------------|---|
| • Open Registration            | : February 28 <sup>th</sup> - March 29 <sup>th</sup> , 2023 |
| • Case Distribution            | : March 31 <sup>st</sup> , 2023                             |
| • Coaching for Delegates       | : April 1 <sup>st</sup> , 2023                              |
| • Preliminary Round Submission | : April 20 <sup>th</sup> , 2023                             |
| • Finalist Announcement        | : April 27 <sup>th</sup> , 2023                             |
| • Laboratory Testing Procedure | : May 2 <sup>nd</sup> , 2023                                |
| • Powerpoint File Submission   | : May 18 <sup>th</sup> , 2023                               |
| • Technical Meeting            | : May 18 <sup>th</sup> , 2023                               |
| • Competition Day              | : May 19 <sup>th</sup> , 2023                               |
| • Gala Dinner                  | : May 20 <sup>th</sup> , 2023                               |

### Awards

The winners of Petrolida Fracturing Fluid Design Competition 2023 will be announced at Petrolida Offline Gala Dinner and will be awarded a certificate and money. The winners will receive the following respective prizes:

- |                             |                 |
|-----------------------------|-----------------|
| • Champion                  | : IDR 5.000.000 |
| • 1 <sup>st</sup> Runner-Up | : IDR 3.000.000 |
| • 2 <sup>nd</sup> Runner-Up | : IDR 2.000.000 |

\*All Delegates will Receive E-Certificates

### Contact Person

**Muhammad Hagie Antasena**

Coordinator of Fracturing Fluid Design Competition 2023

Email : [ffdc.petrolida@gmail.com](mailto:ffdc.petrolida@gmail.com)

WhatsApp : 088803164250



# Business Case Competition



## Competition Theme

“Maintaining Grab User Loyalty and Retention in a Post Pandemic Environment”

### Competition Description

This year’s Petrolida business case competition challenges participants to strive on finding the best solution for the given case, which involves problems requiring effective business strategies. This competition requires a wide range of skills, including problem analysis and strategy formulation, as well as teamwork ability. The main purpose of the business case competition is to not only provide knowledge to participants from a technical point of view, but also to provide them with opportunities to improve the skills needed to effectively evaluate and solve problems. Through this competition, the participants will also learn to overcome the difficulties of facing the developing industry’s current problems.

### Case Overview

Grab is a leading technology company in Southeast Asia that provides ride-hailing, food delivery, digital payments, and financial services. It has a strong presence in Indonesia and has established a loyal user base. However, the COVID-19 pandemic has impacted the transportation and food delivery industry, resulting in changes in consumer behavior and preferences. As the world starts to recover from the pandemic, Grab needs to adapt to the new normal to maintain user loyalty and retention.

In the highly competitive market of ride-hailing and food delivery, retaining user loyalty is vital for business success. Therefore, Grab needs to differentiate itself from its competitors by providing unique value propositions that appeal to users. This could include offering personalized recommendations and rewards, improving the user experience, or developing innovative marketing strategies that resonate with users.

Business Case Competition Petrolida 2023 presents an opportunity for students to come up with innovative solutions that can help Grab tackle the challenges of the post-pandemic environment. By participating in the competition, students can gain valuable experience in problem-solving, critical thinking, and creativity, which are

essential skills in today's fast-paced business world. Ultimately, the ideas generated through the competition can help Grab to maintain its user loyalty and retention, positioning the company for long-term success in Indonesia and the broader Southeast Asian market.

### General Rules

1. Open to all undergraduate students from any university major all around the world.
2. Each team is allowed to have members of different majors, but they must come from the same university.
3. Each team is made up of 3 people, with no substitutes.
4. Participants are not permitted to register for more than two Petrolida 2023 teams in the same year.
5. Preliminary Stage and Semi Final Stages will be conducted by using online platforms and Competition Final Stages will be conducted offline.
6. Each team may only send one abstract.
7. The content of the report and presentation must be related to the theme.
8. Any act of plagiarism is strictly prohibited.
9. All entries and administration documents will become the property of the PETROLIDA 2023 Organizing Committee and will not be returned.
10. All participants should attend the Technical Meeting.
11. The Business Case Competition PETROLIDA 2023 rules and regulations are subject to change. However, any changes will be announced at the technical meeting one day before the event or informed by email in advance to the team leader's email.
12. Failure to follow the rules, format, or deadline may result in a point deduction or even **disqualification**.
13. The judge's decision is final and cannot be changed under any circumstances.

### Competition Format

The PETROLIDA 2023 Business Case Competition is divided into three stages which are :

- a. The Preliminary Stage (Executive Summary Selection)
- b. The Semifinal Stage (Final Solution Report Submission)
- c. Final Stage (Presentation Deck Submission)

### Preliminary Stage Guidelines

1. The preliminary stage requires participants to write an executive summary providing a solution for the problem given in the preliminary case.
2. Full cases will be sent to each team's leader email account and can be accessed on PETROLIDA 2023's website (for registered teams only).
3. Participants are required to submit their payment proof registration along with the executive summary in the form of .pdf through the website with the subject **BusinessCaseCompetition\_PETROLIDA 2023\_(Team's Name)**

4. In the Preliminary stage, each team must submit a short essay (Executive Summary) with the following criteria :
  - The executive summary should consist of a minimum 2 pages and maximum 3 pages outside appendix, references, and cover.
  - Use the executive summary format that is available on PETROLIDA 2023's website (petrolida.com)
  - The executive summary should include: Introduction, problem analysis, and solutions & recommendation.
  - Margin : 2.5 cm
  - Font type : Times New Roman
  - Title Font Size : 14 pt
  - Font Size : 12 pt
  - Line Spacing : 1.15
  - Alignment : Justified
  - Teams are prohibited to write any information regarding their institution.
  - Submitted in pdf format to Petrolida's Website (petrolida.com) **before April 5<sup>th</sup>, 2023 at 23.59 WIB (GMT+7)**
  - File name and email subject :  
BusinessCaseCompetition\_TeamName\_Abstract\_PETROLIDA 2023

### Semifinal Stage Guidelines

1. This semifinal stage requires participants to submit a full report consisting of a solution for the problem given in the case.
2. In the semifinal stage, each team must submit a solution report with the following criteria:
  - Margin : 2.5 cm
  - Font type : Times New Roman
  - Title Font Size : 14 pt
  - Font Size : 12 pt
  - Line Spacing : 1.15
  - Alignment : Justified
  - Maximum pages : 15 pages exclude cover, abstract, references, and appendix
  - The report should include Abstract, Introduction, Theoretical Framework, Problem Explanation, Solution, Conclusion, and Suggestion. Other than that, participants could write the contents with or without Company Profile and Supporting Data/Statistic
  - Teams are prohibited to write any information regarding their institution.
  - Submitted in pdf format to Petrolida's Website before **May 1<sup>st</sup>, 2023 at 23.59 WIB (GMT+7)**
  - File name and email subject:  
BusinessCaseCompetition\_TeamName\_Final Report\_PETROLIDA 2023

### Final Stage Guidelines

1. Participants are required to wear formal clothes with no alمامater during the presentation.
2. **Presentation deck** must be submitted in (pdf.) file format to our website (petrolida.com). However, if the file exceeds 10 mb please kindly send the file to bccomp.petrolida@gmail.com **before 16th May 2023 at 12.00 WIB (GMT+7)**.
3. Each participant will be given a maximum of 3 minutes of preparation time, 15 minutes of presentation time, 10 minutes of question & answer session with the judges
4. Universities or institutions are not allowed to be included in the solution report or presentation deck.
5. The presentation will be done offline in Institut Teknologi Sepuluh Nopember, further technical details will be informed at the Technical Meeting.
6. The moderator and time keeper will directly cut and stop the presentation when the maximum time limit has been met.
7. Participants should be attended at least 10 minutes before the presentation starts.
8. The order in which the participants present on the day of the competition will be drawn during the technical meeting.
9. The presentation will be a closed presentation.
10. Both the Solution Report and Presentation must be written and delivered in English.

### Preliminary and Semifinal Judging Criteria

PARAMETER	POINTS
Accuracy	35
Effectivity, Efficiency, and Feasibility	20
Comprehensiveness and Depth	15
Relevance	10
Elaboration of Answers	10
Written Using Proper Academic English	5
Conformity of Format	2.5
Citations, Reference (APA Style)	2.5
Total	100

### Final Stage Judging Criteria

PARAMETER	POINTS
Presentation Content	40
Manner & Language	20
Time efficiency	10
Questions & Answers	30
Total	100

### Tournament Officials

#### 1. Judges

There will be 3 judges from collaborator partners with professional backgrounds that will assess the participant's efforts with points that will be used to count the final point based on the assessment criteria stated before.

#### 2. Moderator

Moderator will guide the competition and judging, enforce the rules & regulations, and has the right to stop and continue the presentation.

#### 3. Timekeeper

Timekeeper will remind the time left for each team to participate in every session.

#### 4. Operator

Operator will be the one who is responsible for the presentation media used in the competition.

#### 5. Competition Committee

The competition committee will be responsible for all the competition execution on the competition presentation day.

#### 6. Liaison Officer

Responsible for giving information from committees to participants.

### Registration Guideline

1. The registration is open through the Petrolida 2023 website from February 28th 2023.
2. The participants are required to post an Instagram post according to the Business Case Competition PETROLIDA 2023 twibbon template that can be accessed on the [petrolida.com/DelegatesTwibbon](https://petrolida.com/DelegatesTwibbon)
3. There will be no fee for the registration for the preliminary stage. However, participants must subscribe to Grab Unlimited, at IDR 1, which will be explained through [petrolida.com/GrabUnlimitedBCCPetrolida2023](https://petrolida.com/GrabUnlimitedBCCPetrolida2023)
4. The fee for the semifinal stage of the Business Case Competition is IDR 150.000/team (USD 15)
5. The Top 10 Finalists (that will compete in the final stage) must pay an additional fee in the amount of:
  - a. **IDR 565.000/person (USD 40)** full hospitality
  - b. **IDR 400.000/person (USD 30)** non-accommodation
6. Payment has to be done via bank transfer to:
  - a. **BCA**  
7655189203  
a.n. Putri Nabila Adekamtari
  - b. **PayPal**  
@putriadekamtari  
a.n. Putri Nabila Adekamtari
7. Note that the payment for the semifinal stage will be **non-refundable**.
8. For any registration inquiries, please reach out through e-mail or contact person.  
\*Full Payment is only required for the selected teams after the semifinal stage.

### Key Dates

- |                                       |                                    |
|---------------------------------------|------------------------------------|
| ● Open Registration                   | : February 28 <sup>th</sup> , 2023 |
| ● Case Release                        | : March 10 <sup>th</sup> , 2023    |
| ● Close Registration                  | : April 4 <sup>th</sup> , 2023     |
| ● Preliminary Submission Deadline     | : April 5 <sup>th</sup> , 2023     |
| ● Semifinal Announcement              | : April 12 <sup>th</sup> , 2023    |
| ● Solution Report Submission Deadline | : May 1 <sup>st</sup> , 2023       |
| ● Finalist Announcement               | : May 7 <sup>th</sup> , 2023       |
| ● Final Deck Submission               | : May 16 <sup>th</sup> , 2023      |
| ● Technical Meeting                   | : May 18 <sup>th</sup> , 2023      |
| ● Competition Day                     | : May 19 <sup>th</sup> , 2023      |
| ● Gala Dinner                         | : May 20 <sup>th</sup> , 2023      |



### Awards

The winners of Petrolida Business Case Competition 2023 will be announced at Petrolida Offline Awarding Night and will be awarded a certificate and money. The winners will receive the following respective prizes

- **First Winner** : IDR 7.000.000
- **First Runner-up** : IDR 4.000.000
- **Second Runner-up** : IDR 2.000.000

\*All Delegates will Receive E-Certificates

### Contact Person

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