



## 1<sup>st</sup> IEF INTRODUCTION

1<sup>st</sup> International Engineering Fest is a competition in Engineering field for college/university students hosted by Universitas Internasional Batam (UIB)-Indonesia. This competition will be attended by professionals and academicians from more than 5(five) Asian countries. In addition, the target participants of this competition are Engineering students, specifically Architecture, Civil Engineering, Information System, and Information Technology fields. Thus, the students can broaden their knowledge and insights about the latest development of their expertise.

The purposes of the 1<sup>st</sup> International Engineering Fest (IEF) are:

- To give international exposure for the students
- To improve students' hard skill and knowledge of architecture, civil engineering, information system, and information technology.
- To develop student interest in architecture, civil engineering, information system, and information technology field.
- To develop students' soft skills, such as creativity, critical thinking, and communication.
- To create a possible achievement for the students
- To strengthen collaborations with Universitas Internasional Batam

The 1<sup>st</sup> International Engineering Fest brings a theme of "Ideas and Creativity Using Technology Innovatively". There are five (5) competition categories in the 1<sup>st</sup> International Engineering Fest, namely:

- Rendering & AutoCAD
- 3D Modelling
- AWS Jam
- Artificial Intelligence
- Mobile Application Design
- We truly hope that the participants will obtain a valuable knowledge and experience by joining this competition.

Welcome to the 1<sup>st</sup> International Engineering Fest!

## General Rules

1. Participants of the 1<sup>st</sup> IEF are active students studying in Bachelor Degree (S1) Program or Diploma (D4, D3) Program from all universities. As the evidence, the participants should attach a photocopy of their student ID card.
2. Registered participants cannot be replaced with other participants (starting from the proposal preparation stage until the final stage)
3. The participants must attend by online and follow the entire series of final events.
4. Ideas and topics for all the categories of competition must be related to the 1<sup>st</sup> International Engineering Fest, namely Ideas and Creativity of Using Technology Innovatively.
5. All works that submitted by the participants must be their original works, not plagiarism from existing works, have never won a similar competition and have never received an award from any institution.
6. If the participants are proven to have violated the provisions of the points above, they will be disqualified.

## AWS Jam Competition

1. Participants should fill out the registration form on <https://bit.ly/the1stiefReg>
2. Participants are active students in the home university, specifically from Computer Science/IT department.
3. The participants understand about AWS Jam. The minimum prerequisites are:
  - Hands on experience with the AWS Console and familiarity with navigating the AWS services is recommended.
  - Have some experience with basic services such as S3, VPC, E2, KMS, Cloud Watch, Cloud Trail.
  - Have a practitioner level
  - Some challenges may also involve lambda scripting, additional services, and require deep domain expertise. In those cases, consult with the Jam event manager for additional details.

4. Before the competition, the participants must attend a workshop about AWS and technical meeting about AWS Jam Competition which is organized by UIB.
5. This competition is a team project consisting of 3 (three) students. It is allowed to have team members from different universities.
6. Decision of the winner is based on the system of AWS Jam, namely the highest score and the fastest.
7. AWS Jam Competition is a one-day-competition with 2-hour-duration for the participants to complete the challenges.

### Rendering Competition

1. Participants should fill out the registration form on <https://bit.ly/the1stiefReg>
2. Participants are active students in home university, specifically from Civil Engineering and Architecture Department.
3. This competition is a team project consisting of 3 (three) students. It is allowed to have team members from different universities.
4. All participants must pay attention to the suitability of the work with theme, namely "Floating House"
5. Specifications:
  - Participants must use Lumion Software
  - Format .png poster resolution
6. The submitted work is an original work. The participants must be fully responsible for the submitted work.
7. The work must be submitted to the email ([the1stief@gmail.com](mailto:the1stief@gmail.com)) by April 21, 2023.

No.	Assessment Criteria	Score	Weighted (%)	Value	Justification of Assessment
1	Creativity		30		
2	Lighting		30		
3	Texture		20		
4	Model		20		

## Drafting Competition

1. Participants should fill out the registration form on <https://bit.ly/the1stiefReg>
2. The participants are active students in home university, specifically from Civil Engineering and Architecture Department.
3. This competition is a team project consisting of 3 (three) students. It is allowed to have team members from different universities.
4. All participants must pay attention to the suitability of the work with theme, namely "Floating House"
5. Specifications:
  - Participants must use AutoCAD software
  - Format .dwg 2018 and .pdf with maximum size 10 MB.
6. The submitted work is an original work. The participants must be fully responsible for the submitted work.
7. The work must be submitted to email ([the1stief@gmail.com](mailto:the1stief@gmail.com)) by April 21, 2023

No.	Assessment Criteria	Score	Weighted (%)	Value	Justification of Assessment
1	Suitability with theme		30		
2	Building Structure and Drawing Neatness		30		
3	Use and Notation of Working Drawings		40		

## 3D Modelling

1. Participants should fill out the registration form on <https://bit.ly/the1stiefReg>
2. All participants must pay attention to the suitability of the work with theme, namely "Business Development using 3D"
3. Participants can choose the categories below.
  - a. 3D Model of Product or Service Advertising
  - b. 3D Model of Business Place Interior
4. Project can be submitted individually or team of max 6 people.

5. Participants must submit the work in an online drive consist of:
  - a. 3D model file (.ma, .mb, .max, .blend, .fbx, .obj,)
  - b. Rendered File (video atau image)
6. The work must be uploaded to a Google Drive/One Drive. Please copy and paste the Google Drive/One Drive link and submit the link to <https://bit.ly/Submissionthe1stief> by April 21<sup>st</sup>, 2022.
7. The submitted work is an original work. The participants must be fully responsible for the submitted work.

No.	Assessment Criteria	Score	Weighted (%)	Value	Justification of Assessment
1	Creativity		30		
2	Lighting		30		
3	Texture		20		
4	Model		20		

### Artificial Intelligence Competition

1. Participants should fill out the registration form on <https://bit.ly/the1stiefReg>
2. All participants must pay attention to the suitability of the work with theme, namely “Using Data Science to Improve Humanity”
3. Specific Rules:
  - The participants must use readily available open dataset (Google Dataset, Kaggle, data.gov, datahub.io, etc).
  - Participants can use any free data science tools (Google colab, anaconda, kite, heroku, etc)
  - Participants can use any computer programming language but you can’t use no-code language or platform
4. Project can be submitted individually or team of max 6 people.
5. The work must be submitted in git.hub link consists of:
  - a. Data training result
  - b. Source code and release
  - c. Project documentation (which must disclose aims of AI, how to deploy, used dataset, tools and programming language)

6. The work must be uploaded to a Google Drive/One Drive. Please copy and paste the Google Drive/One Drive link and submit the link to <https://bit.ly/Submissionthe1stief> by April 21<sup>st</sup>, 2022.
7. The submitted work is an original work. The participants must be fully responsible for the submitted work.

No.	Assessment Criteria	Score	Weighted (%)	Value	Justification of Assessment
1	Usage		50		
2	Data Science Technique		25		
3	Programming Technique		25		

#### A. Mobile Application Design Competition

1. Participants should fill out the registration form on <https://bit.ly/the1stiefReg>
2. All participants must pay attention to the suitability of the work with theme, namely “Mobile Apps for the Niche-Needs”
3. Project can be submitted individually or team of max 6 people.
4. Participant may use:
  - a. Content based UI developer (Marvelapps, figma, adobe XD, sketch, etc)
  - b. Code based UI Developer (Flutter, Android Studio, React, Ionic, Cordova, etc)
5. The work must be submitted in git.hub / drive link consist of:
  - a. Source Code / UI
  - b. Video presentation of the Mobile apps design
6. The work must be uploaded to a Google Drive/One Drive. Please copy and paste the Google Drive/One Drive link and submit the link to <https://bit.ly/Submissionthe1stief> by April 21<sup>st</sup>, 2022.
7. The submitted work is an original work. The participants must be fully responsible for the submitted work.

No.	Assessment Criteria	Score	Weighted (%)	Value	Justification of Assessment
1	Design		30		
2	User Friendliness		30		
3	Program Aim		40		

Timeline:

No	Activity	Date
1	Open registration	09 January, 2023
2	Close Registration	24 March, 2023
3	Final submission for a. Rendering b. Drafting c. Mobile Application Design d. Artificial Intelligence e. 3D Modelling	Deadline: April 21, 2023
4	Competition Judging	24 April – 05 May 2023
5	Technical meeting & Workshop for AWS Jam Competition	28 April, 2023
6	AWS Jam Competition	05 May, 2023
7	Closing for 1st International Engineering Fest a. Webinar b. Announcement for winner	10 May, 2023