BINUS
UNIVERSITY

ICONE
BINUS
International Competition of Industrial
Engineering Binus University

# ICONE-B 2022

INTERNATIONAL COMPETITION
OF INDUSTRIAL ENGINEERING
BINUS UNIVERSITY

## THEME:
SAFETY AND HEALTH MANAGEMENT

# GUIDE BOOK
## ICONE-B 2022

# PROLOGUE

International Competition of Industrial Engineering - BINUS University or abbreviated "ICONE-B" is an annual industrial engineering competition held by Bina Nusantara University. This competition is first introduced in 2022 proposed by Industrial Engineering Department of Bina Nusantara University. ICONE-B 2022 will bring up the theme "Safety and Health Management". This theme is carried out as today's industry is continuously evolving into a better shape. Despite aiming for efficiency, productivity, and quality, industry also aims to improve its process through safety and health management. This is true due various hazards and unique industry environment that contributes to injury and fatality rate. Industry organization is responsible for providing a constructive safety and health management systems to ensure the employers from any danger. The danger itself can either be in the form of physical or mental effect. The need of safety and health management encourages us to establish this competition by bringing up the theme of safety and health management. ICONE-B is divided into 3 sections where each section has its specific topic. Participants can select which section of competition they are participating based on the topic. The 3 topics of ICONE-B 2022 are:

1. Safety and Health Management in Service Facility
2. Safety and Health Management in Warehouse
3. Safety and Health Management in Manufacturing Process

For the participants, ICONE-B is expected to motivate them to conduct a research related to the issues of safety and health management in industry environment as well as provide innovative and creative solutions to overcome the issues. From the perspective of industry, ICONE-B can contribute to the creation of safer and healthier industry environment through the innovation formulated by the participants. We envision this competition to continuously support the development of Indonesian industry in the future.

# TIMELINE

**2 AUG 2022**
Registration
Date

**27 AUG 2022**
Open Submission

**16 SEPT 2022**
Submission &
Registration
Deadline

**16 - 26 SEPT 2022**
Judging Phase

**29 SEPT 2022**
Winner
Announcement

# PRIZE

## 2
### $275
### Rp4,1M
**SECOND WINNER**

## 1
### $415
### Rp6,2M
**FIRST WINNER**

## 3
### $135
### Rp2M
**THIRD WINNER**

**FAVORITE WINNER**

### $70
### Rp1M
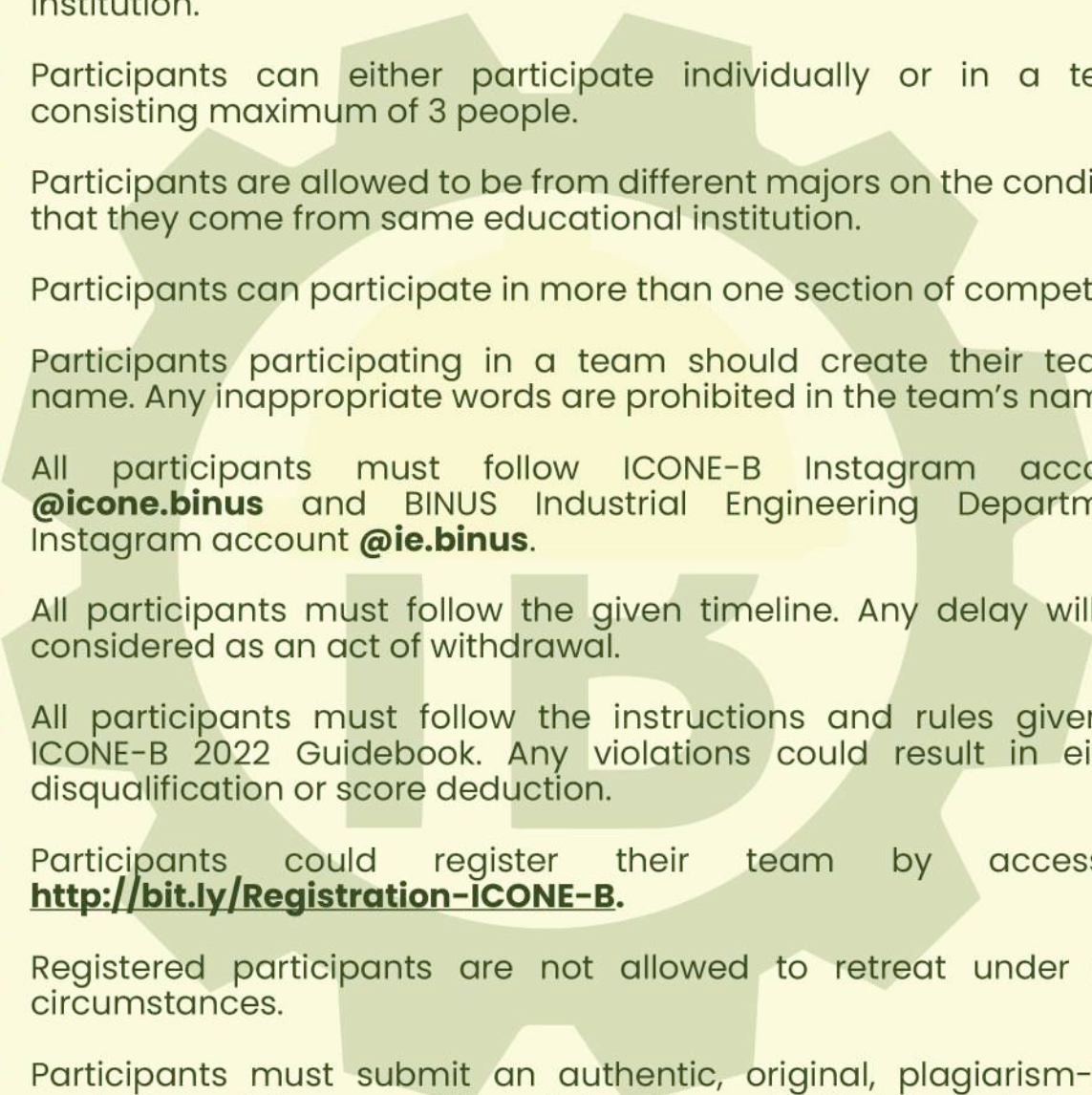
*Tax has not been included
*The listed price is applied for the all three sections of ICONE-B
 2022 meaning there will be 12 winners in total.

# GENERAL REQUIREMENTS

1. Participant must be an active undergraduate in any educational institution.

2. Participants can either participate individually or in a team consisting maximum of 3 people.

3. Participants are allowed to be from different majors on the condition that they come from same educational institution.

4. Participants can participate in more than one section of competition.

5. Participants participating in a team should create their team's name. Any inappropriate words are prohibited in the team's name.

6. All participants must follow ICONE-B Instagram account **@icone.binus** and BINUS Industrial Engineering Department Instagram account **@ie.binus**.

7. All participants must follow the given timeline. Any delay will be considered as an act of withdrawal.

8. All participants must follow the instructions and rules given in ICONE-B 2022 Guidebook. Any violations could result in either disqualification or score deduction.

9. Participants could register their team by accessing **http://bit.ly/Registration-ICONE-B**.

10. Registered participants are not allowed to retreat under any circumstances.

11. Participants must submit an authentic, original, plagiarism-free content for this competition. It is also prohibited to include any racism, violate, hate speech, and other verbal abuse in the submission contents. Participants that violate this rule will immediately **DISQUALIFIED** from ICONE-B 2022.

12. All submission contents of ICONE-B 2022 must be in English (US)

13. Official time zone of ICONE-B 2022 is GMT+7

14. Participants can ask any questions to our official email address **icone.binus@gmail.com**

15. The copyright of submitted contents will belong to the Industrial Engineering Department of BINUS University.

# GUIDELINE

1. All teams participating in ICONE-B 2022 are required to create a paper based on their own research related to issues of the selected topics.

2. There are three topics available including
   - Safety and Health Management in Service Facility
   - Safety and Health Management in Warehouse
   - Safety and Health Management in Manufacturing Process

3. Participants are allowed to gather information and data from any valid source, such as journal, book, conference papers, etc. The cited journal and conference papers should be published within the last 5 years (2017-2022), while the cited book should be published within the last 10 years (2012-2022).

4. After elaborating and concluding the issue of the selected topics, participants are expected to provide solutions as contributions to the creation of safer and healthier industry environment.

5. The solutions can be in any kind of form such as ideas, design, systems, and prototype as long as it is original and related to the corresponding issues. It is also important to provide innovative, creative, and realistic solutions as it might be implemented in real industry.

6. Furthermore, all teams should create a video and infographic poster that summarized their paper content in a creative and engaging way.

7. Then, participants should upload the video to their own YouTube channel. Participants with the most liked and views in the video will be nominated as the Favorite Winner in this competition.

8. Finally, participants can submit the results to our email **icone.binus@gmail.com** starting from 27 August 2022 until 16 September 2022. The submitted results should be the following format:
   - Format File       : .zip
   - Email Subject    : Team Name/Individual Name_ICONE-B 2022_ TOPIC
   - Example         : Team X_ICONE-B 2022_ Safety and Health Management in Service Facility
   - Zip file contains of paper, and infographic
   - The video will be sent through "shared" YouTube link attached in the email body

# PAPER
# REQUIREMENTS & CRITERIA

① The paper must include at least
  - Title
  - Abstract
  - Introduction
  - Literature Review
  - The proposed solutions
  - Conclusions
  - Reference

② The paper maximum pages are 12 (excluding title and references).

③ All reference and citations must be written in APA Style.

④ The paper should also include team name, institution name, ICONE-B Logo, and BINUS University Logo.

⑤ **Paper Formatting**
  - Format File       : PDF
  - Font              : Times New Roman
  - Font Size         : 14 Bold (Title) and 12 (Sub-title & Body)
  - Margins           : 2,54 (All)
  - Spacing           : 1,15
  - Alignment         : Center (Title) and Justified (Body)
  - Page Number       : Top Right (Font 10)
  - Paper Size        : A4 (210 x 297 millimeters)
  - Figure title      : Below the figure (Font 10)
  - Table title       : Above the table (Font 10)

# VIDEO
## REQUIREMENTS & CRITERIA

1. The video must include at least
   - Title
   - Introduction by team members
   - Summary of the paper
   - Proposed solution

2. The usage of voice generator is forbidden in the video.

3. The video should also include team name, institution name, ICONE-B Logo, and BINUS University Logo.

4. **Video Formatting**
   Format File      : MKV/MP4
   Resolution       : 480p - 1080p
   Duration         : 3 – 7 minutes
   Maximum Size   : 400 MB
   Orientation      : Landscape

5. Participants are not allowed to use any copyright sound, footages, photos, etc in the video.

6. Make sure to design the video as entertaining as possible, while maintaining the clarity of the delivered information.

# INFOGRAPHIC
## REQUIREMENTS

① The infographic must include at least:
- Title
- Team Name
- Summary of the Paper
- Proposed Solution

② The infographic should also include team name, institution name, ICONE-B Logo, and BINUS University Logo.

③ **Infographic Formatting**
- Format File         : JPG/PNG
- Size                : A3
- Maximum Size     : 15 MB
- Orientation        : Portrait
- Total Maximum Words : 400 Words

④ Make sure to design the infographic as entertaining as possible, while maintaining the clarity of the delivered information.

# FAQ

Frequently Asked Question ICONE-B 2022

① **How to register myself as a participant of ICONE-B 2022?**
Participants can register themselves in **http://bit.ly/Registration-ICONE-B** and other important information will be posted on our Instagram.

② **How do I know that my team and I are registered?**
Participants that have submitted the registration form will be noticed by email. Make sure the email you submit in the form is written correctly.

③ **Can I change the data of the team members?**
No, unfortunately you are not allowed to change the data of the team members. Make sure the data of your team members is written correctly.

④ **Can I change the topic I chose after submitting the registration form?**
Participants are prohibited to change their chosen topic after the registration form is submitted. Make sure you choose the right topic before submitting the form.

⑤ **Should I attach all of the logos of ICONE-B to the poster, video, or infographic we make?**
Yes, the logos should be attached to the poster, video, or infographic made by participants. The logo can be downloaded at **http://bit.ly/LOGO-ICONE**.

⑥ **Where should I put the logo of ICONE-B in my paper, video, or infographic?**
There is no specific format for the logo placement. Participants can freely put the logo of ICONE-B in the submitted content, as long as it is clear and can be seen by the committees.

⑦ **Can I form a team consisting of students from multiple universities?**
No, unfortunately you are not allowed to form a team consisting of students from multiple universities.

⑧ **What if I don't have or lose my student ID to prove my identity as a student?**
Use a formal letter from the university or use another card that proves acceptable as a student ID substitute.

⑨ **Will all participants get an e-certificate?**
Yes, all participants will get an e-certificate of participation as an appreciation.

⑩ **Can I upload works that I have submitted in other competitions?**
No, the participants can't submit the works that have been submitted in other competitions. The work that is eligible to submit is the original one that was never submitted to another competition.

CONTACT

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