



# BOOKLET

22<sup>ND</sup> ANNUAL ISEEC INDUSTRIAL & SYSTEMS ENGINEERING COMPETITION

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# PREFACE

Industrial and Systems Engineering Competition (ISEEC) is an annual event held by students of the Department of Industrial Engineering Universitas Indonesia. ISEEC aims to become a platform for its participants to enhance and sharpen their understanding of industrial and system engineering science, enabling them to implement their knowledge to the latest issues that the industry currently faces. Therefore, in accordance with our aim, ISEEC 2022 proudly announces its grand theme: "From Waste to Wealth: The Transition of Business towards Circular Economy for Sustainable Future".

Indonesia is a bright spark in terms of placing emphasis on a circular transition. Having elaborated on circular economy concepts in Vision Indonesia 2045, the largest economy in Southeast Asia has a lot to work for to be able to uncover the opportunities beyond this green-led recovery. We await the catalyst in you to bring light to this transition, while also helping various businesses across diverse industries to identify the comprehensive strategies and raise awareness about the sustainable future we are facing.



## OUR THEME

### **FROM WASTE TO WEALTH :**

THE TRANSITION OF BUSINESS  
TOWARDS CIRCULAR ECONOMY  
FOR SUSTAINABLE FUTURE





# COMPETITION TIMELINE





# COMPETITION

1

## PRELIMINARY ROUND

### ONLINE SELECTION

Preliminary round will be conducted in the form of online test. In this round, Each team only have 1 opportunity to do the online test on their prior knowledge of Industrial and System Engineering subject. The participants will be assigned to work on the test ONCE between 2-4th of September.

The top 10 teams with the highest score in this round will proceed to the First Stage of the ISEEC competition.



# COMPETITION

2

## FIRST ELIMINATION STAGE

### WRITTEN-BASED TEST & TEAM MINI CASE

The first stage will be a written-based test in the form of individual and also team-based tests.

After the individual test, the teams will be given a mini case to test participants' applied knowledge in a case and participants' competency in various fields of Industrial and Systems Engineering.



# COMPETITION

3

## SECOND ELIMINATION STAGE

### SIMULATION-BASED TEST

The second elimination stage of the competition consists of a simulation-based test to put your industrial engineering study into practice.

Top 5 teams with the highest accumulative score from the first elimination stage will proceed to the final stage of the competition.





# COMPETITION

4

## FINAL STAGE

### EXCURSION & BUSINESS CASE CHALLENGE

The top five team will observe and asses real-life situations that the company is facing through excursion.

Each team will have to assemble and propose their solutions for the problems in accordance to the theme in a limited time before presenting it to the panel of judges.



# MAIN EVENT

September 27<sup>th</sup> 2022 ————— ✦ —————  
**OPENING CEREMONY & INTERNATIONAL SEMINAR**

September 28<sup>th</sup> 2022 ————— ✦ —————  
**ISEEC NIGHT**

September 29<sup>th</sup> 2022 ————— ✦ —————  
**EXCURSION & COMPANY VISIT**

September 30<sup>th</sup> 2022 ————— ✦ —————  
**CLOSING CEREMONY**



# PRIZE POOL



**1st Place Winner**  
\$1.250,00 + Certificate



**2nd Place Winner**  
\$1.000,00 + Certificate



**3rd Place Winner**  
\$750,00 + Certificate



**Best Presenter**  
\$100,00



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# CONTACT US

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22<sup>ND</sup> ANNUAL

**ISEEC**

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