

TRANSFORMATION TO **GREENTECH**



MASTER GUIDEBOOK
OF FAITH 2022



Chapter 1

Introduction

Nowadays, the issue of global warming is being hotly discussed in all parts of the world. This natural phenomenon has been realized by all mankind as the impact of human activities in utilizing the natural resources that exist in the bowels and face of the earth in excess. Global warming has become a serious problem that requires full attention. This does not happen due to one cause but several causes, these causes are both natural and man-made. Steps must be taken immediately to stop global warming and make the earth a better place. This situation may be challenging but not completely impossible. Humanity needs to be aware about the fact that the earth is currently not doing well. Our generation must take responsibility in stopping global warming to prevent bad things from happening in the future.

The world itself is currently in process of a transformative shift towards renewable energy, one of them is by developing Green Technology or GreenTech. This technology refers to the type of technology that is considered eco-friendly based on the production process or supply chain. Greentech can also refer to the production of clean energy, the use of alternative fuels, and technologies that are less harmful to the environment than fossil fuels. The goal of greentech is to protect the environment, repair past environmental damage, and conserve the earth's natural resources. Greentech has also become a growing industry that has attracted a large amount of investment. There are a lot of advantages by using greentech, because the world wants to control carbon emissions and temperature rise, which can be overcome by using greentech.

Greentech upholds the green revolution to promote environmental policies, which in itself can save the environment. For that, it is necessary to build greentech objects and frameworks to assist in saving resources and normal conditions. It is necessary to use imaginative strategies to make eco-friendly goods. It is necessary to use imaginative strategies to make eco-friendly



innovations. The need for greentech itself arises because of diminishing natural resources and widespread pollution due to the use of inexhaustible resources. Attention to those conditions, we responded by trying to encourage the younger generation to be able to create and conduct research related to the development of greentech. FAITH 2022 competition is expected to encourage participants to be able to create an innovation or an improvement from existing technology. FAITH 2022 competition will also encourage participants to think creatively and innovatively in facing the uncertainties in the future.





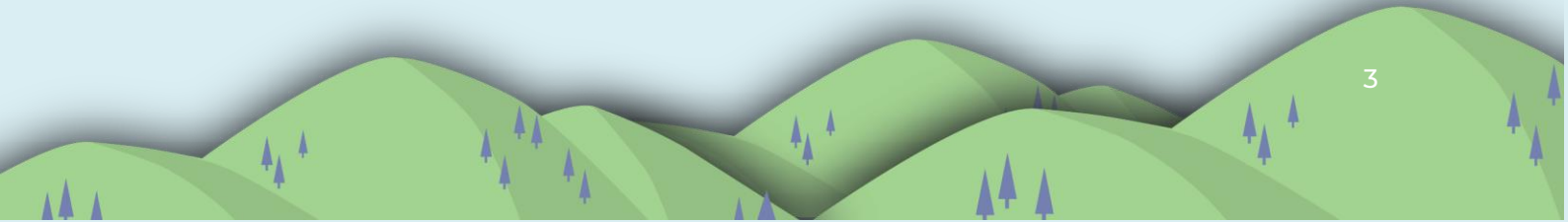
Chapter 1

Purpose of Event

General Purpose

- a. Participants can create ideas or technological creations that can help to realize “Transformation to GreenTech”.
- b. Participants can conduct research and understand the developments along with work changes that happen in the future due to the diminishing of natural resources and the increasing pollution.

Special Purpose

- a. For Participant
 - i. Training their creativity and technology innovation
 - ii. Practicing their research skills
 - iii. Getting to know the Faculty of Industrial Technology at Petra Christian University
 - iv. Getting to know Petra Christian University
 - b. For the Faculty of Industrial Technology at Petra Christian University
 - i. A platform that introduces the Faculty of Industrial Technology of Petra Christian University to an international
 - c. For Petra Christian University
 - i. A Platform that introduces Petra Christian University to an international academic environment especially in Asia and its surrounding
 - d. For Partners
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- i. Getting the increase of their exposure to the participants through our event





Chapter 2

General Requirements

1. Participants must be currently enrolled in a university.
2. Participants must be currently pursuing a diploma or a bachelor's degree.
3. Every team must contain at least 2 undergraduate students and at most 3 undergraduate students.
4. Participants are allowed to compete in more than one division in FAITH INTERNATIONAL COMPETITION 2022.
5. The names of the participants must be written in a complete form without abbreviations.
6. All participants must abide by the given Event Schedule. Late submissions will not be graded and will be considered as an act of surrendering.
7. Official time zone of FAITH INTERNATIONAL COMPETITION 2022 is GMT/UTC +07:00 (Western Indonesia Time Zone).
8. FAITH INTERNATIONAL COMPETITION 2022 will be held online with submission dates from 11 April 2022 to 25 June 2022.
9. Any kind of submission must be authentic, original, and new. Violation of this rule will result in disqualification from FAITH INTERNATIONAL COMPETITION 2022 permanently.
10. The copyright of products belongs to the participants. FAITH INTERNATIONAL COMPETITION 2022 committee and sponsors only have the right of publication.
11. The official language used in FAITH INTERNATIONAL COMPETITION 2022 is English(US).

12. It is **STRICTLY PROHIBITED** to include hate speech, racism, mockery, or other forms of verbal abuse in the contents of submissions.





Chapter 2

Competition Divisions

All competitions held in FAITH INTERNATIONAL COMPETITION 2022 are held in 1 (one) stage only. All of the participants will get a specific period of time to work on the tasks given and submit all the work at once. This competition will be held online, with the rules of each competition explained in the next chapters of this guide book.

FAITH INTERNATIONAL COMPETITION 2022 hosts 4 divisions of competition, which are divided based on the disciplines of each division. Here are the 4 divisions of FAITH INTERNATIONAL COMPETITION 2022 :

1. INDUSTRIAL ENGINEERING COMPETITION (Statistics and Data Analysis)
2. MECHANICAL ENGINEERING COMPETITION (Product Design)
3. ELECTRICAL ENGINEERING COMPETITION (Internet of Things Device Design)
4. INFORMATICS COMPETITION (Web-Based Application Design)

Registration:

1. Registration is done online by accessing faith.petra.ac.id. Follow the steps provided in the registration website.
2. Download the MASTER GUIDE BOOK of FAITH INTERNATIONAL COMPETITION 2022 located at the registration website.



Chapter 2

Event Schedule

Competition Registration

- Date : 11 April 2022 - 25 June 2022
- Place : FAITH 2022's website

Online Submission

- Date : 11 April 2022 - 25 June 2022
- Place : FAITH 2022's website

Judgment Period

- Date : 27 June 2022 - 10 July 2022

Instagram Challenge Period

- Date : 27 June 2022 - 10 July 2022
- Place : Instagram

Winner Announcement

- Date : 11 July 2022
- Time : 16.00 GMT +7
- Place : FAITH 2022's website

*Winners of FAITH INTERNATIONAL COMPETITION 2022 will also receive email notifications from the committee.



PRIZE

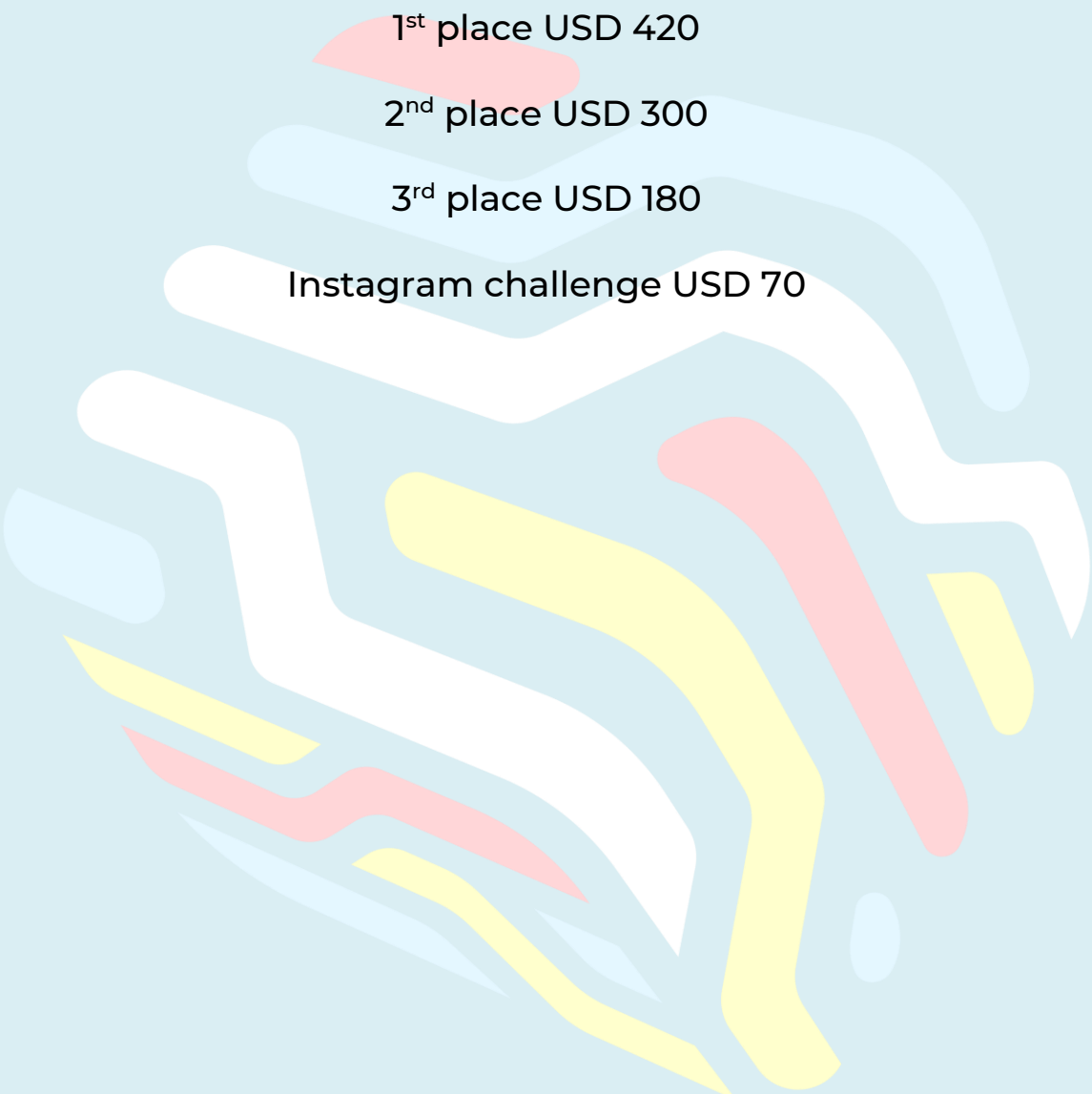
For each competition, participants will get a prize as listed below.

1st place USD 420

2nd place USD 300

3rd place USD 180

Instagram challenge USD 70

A collection of abstract, wavy, and irregular shapes in various colors including red, light blue, white, yellow, and pink, scattered across the light blue background.

FAQs

Q: Where can I register for FAITH INTERNATIONAL COMPETITION 2022?

A: You can register at our website (faith.petra.ac.id). All the registration instructions and other important information will be posted there.

Q: Can I enter a competition division, but I'm not a student of the selected major?

A: Yes, you are allowed (permitted) to enter a competition even if you do not major in that specific division. You do not even have to be pursuing an engineering degree to enter.

Q: Can I form a team consisting of students from multiple universities?

A: No, unfortunately you are not allowed to form a team consisting of students from multiple universities. However, you can form a team consisting of students from different majors in the same university.

Q: Can I change or update the data of the team members?

A: No, unfortunately you are not allowed to change or update any data once they are submitted.

Q: What if I don't have a student ID to prove my identity as a student?

A: A formal letter of proof as a student from campus or a URL of your institution's publicly accessible web page that proves your student status is acceptable as a student ID substitute.

Q: Must I attach all of the logos from APPENDIX 2 to the poster and/or the video we make?

A: Yes, all logos must be attached to the poster and/or the video made by the participants. The requirements are all clearly stated in each competition's poster requirement section.