Electrical Engineering Scientific Competition

FAITH INTERNATIONAL COMPETITION 2021

TIMELINE

⚡ **ONLINE REGISTRATION**
    May 17 – August 7, 2021

⚡ **ONLINE SUBMISSION**
    June 10 – August 7, 2021

⚡ **INSTAGRAM CHALLENGE**
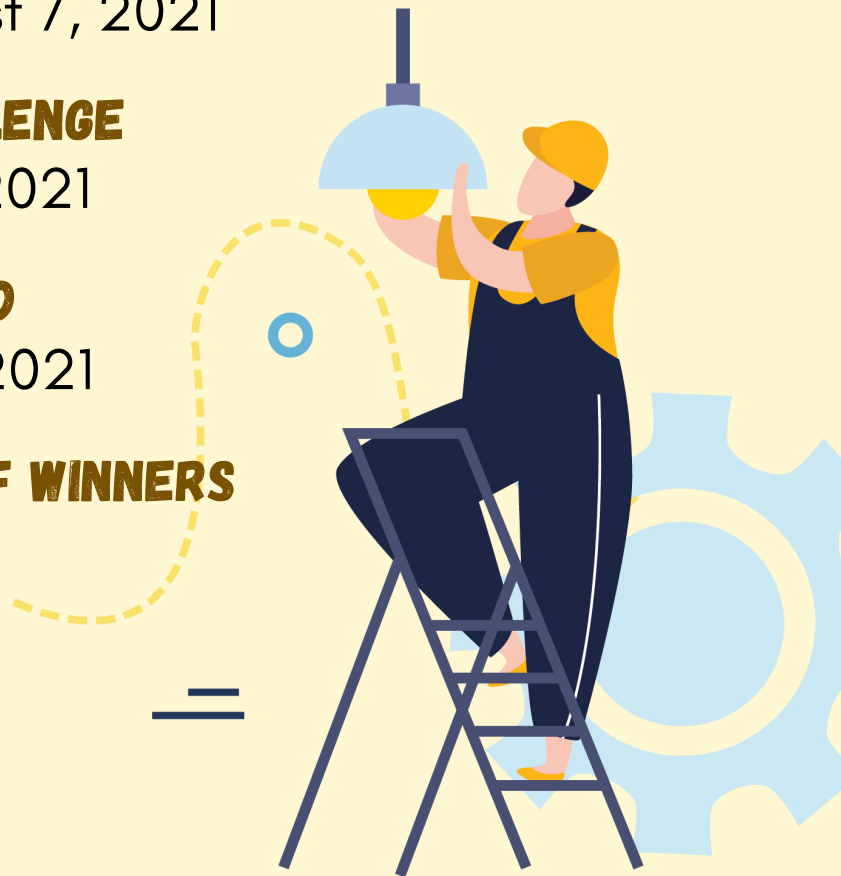   August 9 – 14, 2021

⚡ **JUDGEMENT PERIOD**
    August 9 – 14, 2021

⚡ **ANNOUNCEMENT OF WINNERS**
    August 16, 2021

PRIZE

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

1ST Rp 6.000.000,-

(for approximately USD 420 **)

2ND Rp 4.300.000,-

(for approximately USD 301 **)

3RD Rp 2.700.000,-

(for approximately USD 189**)

Rp 1.000.000,-

(for approximately USD 70 **)

** Exchange Rate used: 1 USD = 14,275.90 IDR

TECHNICAL

1. Start by reading what is expected from you in this competition. (Refer to **MOTIVATION AND GUIDELINES**)
1. Design your product accordingly. (***Prototype is Optional, but highly scored if made***)
2. Design your poster and video.
3. Upload your poster and video to Google Drive and compile them into **one folder**.
4. Set the folder so that **ANYONE WITH THE LINK** can access it.
5. Submit your Google Drive link at faith.petra.ac.id. Follow the instructions at the website.
6. Wait for further instructions from the *FAITH INTERNATIONAL COMPETITION 2021* committee.

MOTIVATION AND GUIDELINES

1. The competition's challenge is to design a product which could optimize the implementation of COVID-19 health protocol OR respond to some changes in Industry 4.0 revolution during COVID-19 pandemic.

2. Your product has to be based on the concept of Internet of Things, which basically means physical objects that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet.

3. The product should be original and has never been known before.

4. Try to add some complexity into the product to gain extra attention from the judges.

5. Place yourself as a designer and engineer at the same time, while clearing your personal vision.

6. If you choose to design a product to optimize the implementation of COVID-19 health protocol, use your personal experience to identify what people or healthcare needs nowadays, especially during COVID-19 pandemic.

7. If you choose to design a product to respond to some changes in Industry 4.0 revolution during COVID-19 pandemic, do some research about what is going on in the current industrial world and come up with a solution for the problems that occur.

8. The Poster and The Video basically should summarize your report in a creative way. Its presentation affects the decision of the judges. You must try to make your poster and video so that they can be understood not only by the judges but ultimately also to non-engineering individuals.

9. Remember that there is also a winning category that challenges participants to get likes from Instagram posts of their poster. Therefore, make sure your poster can pique viewers' interest.

10. Try to create a realistic product that has a future selling potential. If your product wins this competition, you might actually have a chance of improving your product and making profit out of it in the future.

11. Remember that there is also a winning category that challenges participants to get likes from Instagram posts of their poster. Therefore, make sure that your poster can pique viewer's interest. Refer to **INSTAGRAM CHALLENGE**.

POSTER REQUIREMENT

⚡ Poster must be uploaded with file type :
PNG (High resolution)

⚡ Poster size is A3 with no crop marks or transparent pixels. Maximum file size is 10MB.

⚡ Poster must contain **at least** : Title, Function of the product, Summary of the how the product works, Charts and/or pictures

⚡ Poster must contain no more than 300 words, excluding the participants' names and the title of the poster.

⚡ The only personal information that is allowed to be presented in the poster is the name or the nickname of the designer.

⚡ **FAITH INTERNATIONAL COMPETITION 2021 logo** must be included in the poster. (Refer to **APPENDIX 2 - LOGO** in the **MASTER GUIDE BOOK**)

VIDEO REQUIREMENT

1. Video must be uploaded with file type : **MP4**.
2. Video resolution must be at least 360p and at most 720p.
3. The maximum file size of the video is 600 MB.
4. Video duration must be between 5 - 10 minutes.
5. Video must contain at least introduction of participants and explanation of the mechanism of the IoT product.
6. Participants must make an appearance in the video (not necessarily in the entire video).
7. Usage of artificial voice generators is **STRICTLY PROHIBITED**.
8. Any form of speech in the video must be done with clear pronunciation.
9. The only personal information that is allowed to be presented in the video is the name or the nickname of the video creators.
10. **FAITH INTERNATIONAL COMPETITION 2021 logo** must be included in the video. (Refer to **APPENDIX 2 - LOGO** in the **MASTER GUIDE BOOK**)
11. The logo may be shown in the beginning, in the end, or during the entire video.
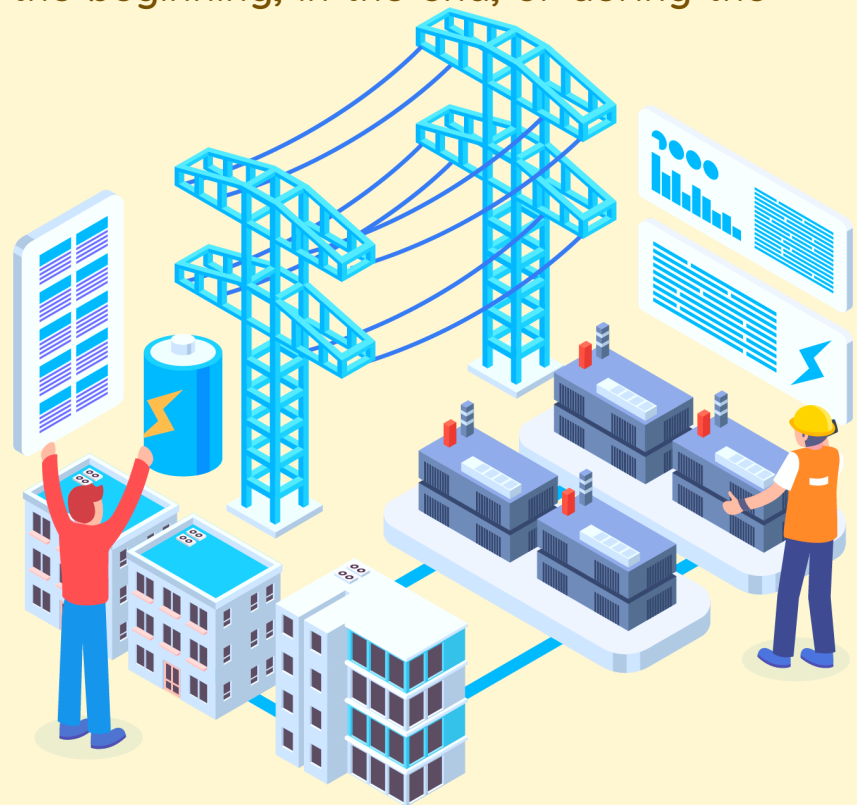
EVALUATIONS CRITERIA AND SCORING

1. **Product Idea – 50%**
   a. Product – 20%
      i. Correlation between the product and *Internet of Things*.
      ii. The functionality of the product.
      iii. The impact which will be made by the product.
      iv. The originality of the product.
   b. Design of Product – 15%
      i. The design of the product must be :
         - Thorough
         - Efficient
         - Clear
         - Considerate
      ii. Added Complexity in the product.
   c. Manufacturing Possibilities – 15%
      i. Realistic
      ii. Possible
      iii. Using standardized/common parts

2. **Poster – 20%**
   a. Explanation – 15%
      i. Gives clear explanations on the concept design
      ii. Points out the "new" innovation of the design
      iii. Can be understood by non-engineering individuals
   b. Poster Design – 5%
      i. Easy to read
      ii. Creative and modern styling

3. **Video – 30%**
   a. Explanation – 20%
      i. Summarizes the product idea and/or the prototype made
      ii. Can give a better understanding to non-engineering individuals
   b. Video Design – 10%
      i. Effective usage of video duration
      ii. Creative and modern video styling
      iii. Clear and easy to understand

INSTAGRAM CHALLENGE

1. Choose **one** of your team members to be the person to upload an instagram feed.
2. The instagram post will contain **only the poster** made by your team.
3. The upload period is 9 August 2021 – 13 August 2021.
4. Any uploads done past the upload period will be not be considered for judging
5. The challenge is to gather the most Likes in your post. This challenge will end on **14 August 2021.**
6. The caption of the post must follow this format :
   [FAITH INTERNATIONAL COMPETITION 2021]
   - TEAM ##
     - Member Name
     - Member Name
     - Member Name
7. The winner will be announced together on 16 August 2021.
8. Make sure to set your Instagram account to Public to allow FAITH International Competition 2021 committee members to check this challenge's posts.