



UNIVERSITAS
INDONESIA

Veritas, Probitas, Iustitia
EST. 1849



NEST UI 2023 GUIDE BOOK

Harnessing the Power of Internet of Things
(IoT) in Everyday Life for the Better Indonesia

#InnovateIndonesia

A. Background

Technological developments through the industrial revolution have brought about many changes to people's social life. Various conveniences and sophistication make the world feel more borderless, one of which is the Internet of Things (IoT). IoT itself has emerged as a transformative technology that has tremendous potential to improve various aspects of our daily lives. By connecting physical devices and enabling them to communicate and exchange data, IoT can revolutionize the industry, increase efficiency and contribute to the development of a better Indonesia. Seeing this potential is certainly a good thing to embrace the power of IoT in everyday life in order to present opportunities to overcome challenges, encourage innovation, and create a more connected and sustainable society in order to achieve Indonesia Gold Year 2045. Departing from these ideals, National University of Indonesia electrical Summit 2022 carries the theme **"Harnessing the power of Internet of things (IoT) in Everyday life for the Better Indonesia"**. This theme is expected to make NEST 2023 a catalyst for increasing student interest and talent in the field of technology, especially IoT, which can later be implemented to solve various problems in Indonesia in the future.

B. Theme

Harnessing the power of Internet of things (IoT) in Everyday life for the Better Indonesia

C. Competition Description

In order to accommodate, hone, and encourage Indonesian students to think critically in order to solve various problems in Indonesia, especially in utilizing the power of Internet of Things (IoT) innovation as an effective solution to today's world. NEST UI 2023 is holding webinars, mentoring, and competitions with related themes. The series of events from NEST UI 2023, namely competition elimination, webinars, mentoring of competition participants, and competition finals. The competition participants will express their ideas in an abstract form which will then be eliminated for the final round. In the final round, the participants will present their ideas in front of the jury. By holding NEST UI 2023, it is hoped that students will be able to design solutive innovations to solve problems.

D. Subtheme

- Smart Homes
- Health Care
- Agriculture
- Transportation
- Automation of Industry
- Environment

E. Registration Flow

- 1) Participants can fill out the registration form at <https://linktr.ee/NESTUI2023>
- 2) Participants must download the twibbon on <https://bit.ly/TwibbonNESTUI2023>, then upload the poster, tag [@nest_ui](#) and tag 3 friends on their respective Instagram story. Furthermore, participants must upload evidence in the form of screenshots on the registration form.
- 3) Each participants must make a payment of Rp120.000,00/team to:
 - 9840053950 bsi a.n Tara Nur Amalina
 - 082299297055 gopay a.n Tara

F. Timeline

Date	Detail	Venue
August 15, 2023— August 26, 2023	Open Submission Competition NEST UI 2023	Google form
September 2, 2023— September 8, 2023	Elimination and Finalists Announcement	Formulir Penilaian Online
September 9, 2023	Seminar Mentoring NEST UI 2023	Zoom meeting
September 16, 2023	Final and Webinar	Zoom Meeting

G. Participant Requirements

- 1) Participants are active students from all universities in Indonesia who are officially registered as students in the S1/D3/D4 education program or equivalent level as evidenced by sending a scan of each participant's student ID card or other files that can state that the participant is an active student.
- 2) If there is a participant who does not match the identity that has been registered with NEST UI, then that participant will be disqualified
- 3) Participants must be a team, consisting of a minimum of 2 students and a maximum of 5 students with 1 person as team leader. Participants must come from the same university
- 4) Each participant can only be registered in one team.
- 5) Each team is only allowed to submit one idea.
- 6) The submitted ideas are original ideas and have never won a similar competition and are not the result of plagiarism. ***must submit a statement of originality listed in the attachment.**
- 7) Participants are prohibited from mentioning university origins on papers and pitch decks.
- 8) Participants must follow the NEST UI Instagram account [@nest_ui](#) and IEEE Instagram account [@ieee_sbui](#) to keep up with the latest NEST UI information.
- 9) The judges' decision is final and cannot be bothered.
- 10) NEST UI applies accumulated point deductions from each violation in the preliminary and pitching day stages.

H. Participant Requirements

1. Full Paper

- I. In the preliminary round, each team must make an a full paper based on the innovation from the selected sub-theme.
- II. Format :
 - Paper must be written in Bahasa Indonesia and relevance with PUEBI
 - Paper must contains Cover, abstract, Background, Literature Review, Metodology, Analysis & Result, Conclusions and reference
 - Paper contains minimum 8 pages and maximum 30 pages, including cover and references
 - Times New Roman, 12 pt, Justified, Line Spacing 1,5
 - Format reference must follow IEEE Style
 - Left margin 4 cm, right margin 3 cm, top margin 3 cm, dan bottom margin 3 cm.
 - The footer must be included the origin of team's university or institution
- III. Paper is submitted in .pdf format with the naming format **Full Paper_NestUI__Leader's Name_Team's Name.pdf** with a maximum size of 10 MB on <https://linktr.ee/NESTUI2023>.

- IV. Each participants must fill out the Letter of Authenticity with meterai Rp10.000. Participants can download the Letter of Authenticity on <https://bit.ly/SuratOrisinalitasNESTUI2023> and submit it at <https://linktr.ee/NESTUI2023>.
- V. Deadline for submission is on 26 August 2023 at 23.59 WIB.

2. Presentation (Final)

- I. Five selected teams are required to submit a pitch deck which will be presented on the pitching day. And will be announce at instagram [@nest_ui](https://www.instagram.com/nest_ui)
- II. The finalist must attend the technical meeting online before the presentation day
- III. Pitch deck is a short form of full paper that will be used for pitching in the form of PowerPoint Presentation
- IV. Each team are allowed to design the PPT as creatively as possible and add images, but not allowed to removing the 2023 NEST UI logo
- V. Maximum duration of the presentation is 10 minutes
- VI. There will be a QnA session by the judges and participants for 10 minutes
- VII. If the team exceeds the presentation time, they will be immediately stopped by time-keeper and transferred to a question and answer session
- VIII. Presentation will be held online

I. Scoring and Criteria

1) Paper

Criteria	Component	Score
Technical	Grammar	10%
	Formatting	
Explication	Team's ability to explains and proceeds the idea of the innovation clearly and concisely	20%
Theme	Paper's correlation with the following theme and subthemes	20%
Originality and Creativity	Team's ability to explains the innovation of method and application from the following methods	30%
Content Quality	Team's ability to show their comprehension of their abstract	20%
TOTAL		100%
VALUE		50%

2) Presentation & QnA

Criteria	Component	Score
Content	Accuration to The Theory	25%
Question	Team's ability to answers any question from judges and audiences	30%
Visualization	Visualization of PowerPoint Presentation	5%
Time Management	Team's ability to delivers the presentation timely	10%
Communication	Gesture	30%
	Diction	
	Intonation and Articulation	
TOTAL		100%
VALUE		50%

J. FAQ

1) Do we need any supervisor for this competition?

There is no need for a supervisor, but it is allowed if you want to consult with your lecturers. Supervisor is not included in the scoring criteria

2) Do the finalists who passed to the final round have to come to University of Indonesia for the presentation?

No, the final events of NEST UI 2023 events will be held online on a Zoom Meeting

3) How do I know that my team has qualified for the final?

The finalists will be announced on NEST UI 2023 social media. In addition, the team leader who passed to the final round will be contacted by the NEST UI 2023 committee and will be invited to the WhatsApp group for further information

4) If there is a team member who is absent on NEST 2023, can it be replaced?

No, only members who registered in the registration form can take part in the 2023 NEST UI competition series

5) Is there a refund if I cancel my registration?

There is no refund for any payment

6) What if my team has a technical problem during the presentation ? Such as disconnection, microphone not turning on, etc.

If one of the team members has a technical problem, it can be replaced with another team member. However, if all team members have problems, the team will be given an additional 5 minutes to re-enter the presentation platform, otherwise it will be rearranged to the last order

7) Will all participants get an e-certificate?

Yes, all participants will receive an e-certificate as a participant, while the winner will receive an e-certificate as a winner. In addition, all participants will also get the results of the judge's assessment of the innovation paper so that it can be used as an evaluation

8) Are there any consequences if I am late in submitting the required files?

If the participant is late in submitting the files, it will be disqualified from the competition.

9) Can I revise my paper after it has been submitted to the committee?

No, the files that have been submitted cannot be changed back. So make sure everything is correct before submitting

10) Can I change the proposed idea if our team has already qualified for the top 10?

No, ideas that have been submitted cannot be changed back. If during the presentation there found any difference in terms of ideas, there will be a point deduction

NEST
UI 2023



Attachment

Cover

NATIONAL ELECTRICAL SUMMIT UNIVERSITAS INDONESIA 2023

(TNR, 14 pt, Bold)

(Logo Universitas)

(3 cm x 3 cm)

(Judul Abstrak)

Subtema: ...

(TNR, 14 pt, Bold)

Disusun Oleh

Ketua Tim : (Nama) (NPM/NIM)

Anggota Tim : (Nama) (NPM/NIM)

(NAMA UNIVERSITAS)

(KOTA UNIVERSITAS)

2023

LETTER OF STATEMENT

With this letter of statement, I am **Group Leader's Name** as the Group Leader of **Group Name** and as a participant of NEST UI 2023 competition, along with other member in our team:

1.
2.

State that our work entitled

1. Is an original innovation paper or our own work from the students who are the participants in NEST UI 2023.
2. Has not been published yet in any other publication.
3. Has never been won in any national or international level competition.
4. Willing to participate in the final series of NEST UI 2023 competition, if our innovation paper get qualified as the best work.

Thus this letter was made with full awareness and without any coercion from any party. Therefore, our team ready to take full responsibility on this letter in the future.

.....,2023

**Materai
Rp 10.000**

(Group Leader's Name)
NIM.....