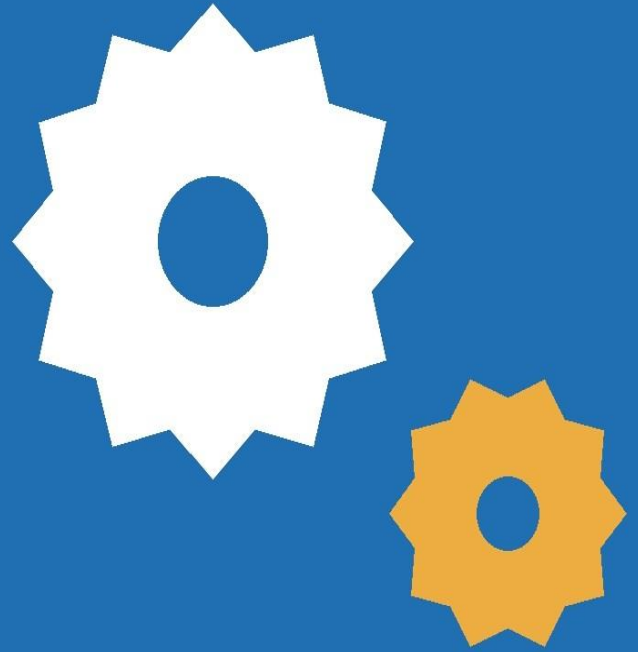


GUIDEBOOK INTERNATIONAL STUDENT COMPETITION TOOL DESIGN

2026

UNIVERSITAS BANGKA BELITUNG

*"Youth-Led Resilience: Turning Crisis into Creative,
Inclusive Innovation"*

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Attachment 1	Cover Page
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INTERNATIONAL STUDENT COMPETITION

TOOL DESIGN

I. Theme

Youth-Led Resilience: Turning Crisis into Creative, Inclusive innovation

I.1. Sub-Themes

1. Assistive Tools for Food Security Technology
2. Assistive Tools for Household Chores
3. Assistive Tools for Agriculture and Plantation
4. Assistive Tools for Maritime Applications
5. Assistive Tools for Healthcare
6. Assistive Tools for Waste Processing

I.2. Design Scope

The assistive tool design must correspond to one of the predetermined themes listed above.

II. Proposal Format

The proposal must be written in English and typed on A4 paper, using Times New Roman, font size 12, with 1.5 line spacing. The maximum number of pages permitted for each proposal is **10 pages** (excluding the Cover Page (Attachment 1 format), the Statement of Originality (Attachment 2 format), the Table of Contents, and Appendices).

Chapter I — Introduction

This section should describe the background of the chosen topic. Explain the problem, issue, or constraint that motivated the design. Also describe various solutions previously proposed by other authors who have examined or discussed this topic, complete with their references. Briefly explain the elements of creativity and originality presented in this work, as well as the advantages offered so that the design may serve as a reference or solution to the existing problem, issue, or constraint. The assessment in this chapter focuses on the application of mechanical engineering knowledge and specific technical skills.

Chapter 2 — Function and Mechanism

This section should describe the function and working mechanism of the designed equipment as a whole, in a detailed and complete manner.

Chapter 3 — Tool Design

This section should describe the design concept, including the design requirements, specifications, and detailed design, accompanied by technical analysis and/or calculations in as much detail as possible.

Appendices

Appendix A contains Engineering Drawings (consisting of 2D drawings, assembly drawings, projections, and sectional views).

Appendix B contains images/data from design software simulation results (optional).

III. Requirements

Participants — whether pupils or university students — must provide proof of eligibility in the form of a valid Student Card, University Student ID Card, or National Identity Card.

The competition provisions are as follows:

1. Participants may compete individually or in groups of 2–4 people.
2. Participants are free to choose the CAD software they wish to use.
3. This Assistive Tool Design Competition does **not** require the creation of a physical prototype.

Participants will be disqualified if any element of plagiarism is found. Registration fee: **FREE**.

IV. Assessment Criteria

There are two stages of assessment in this competition: the Desk Evaluation Stage and the Presentation Stage. The details of the assessment criteria are as follows:

1. Desk Evaluation Stage
 - a) Creativity and originality of design (30%)
 - b) Design for Manufacture and Assembly (DFMA) (30%)
 - c) Functionality and safety analysis (20%)
 - d) Effectively meeting requirements (20%)
2. Presentation Stage
 - a) Communication of the problem to be solved (50%)
 - b) Presentation skills and teamwork (40%)
 - c) Overall performance of the presentation (10%)

During the Desk Evaluation stage, the 10 best designs will be selected to proceed to the Presentation stage, held online via Zoom meeting.

The final assessment used to determine the winners is calculated by combining all scores, weighted as follows:

1. Desk Evaluation (40%)
2. Presentation (10 minutes) (60%)

The decision of the Judging Panel is final and undisputed.

V. Participation

1. Participants are required to prepare a design set out in a proposal and submit the soft file of the proposal to the committee online, following the registration procedure.
2. The soft file must be submitted using the following file-naming format: **"Team Leader's Name_Country Name_Proposal Title"**, sent to the registration link provided on the event flyer.

VI. Competition Timeline

The competition timeline is arranged as follows:

Number	Session	Date
1	Registration	August 3 rd - 2 October 2 nd 2026
2	Review and selection	October 5 th – 16 th 2026
3	Announcement of Desk Evaluation result	October 21 st 2026
4	Presentation Stage	October 29 th 2026
5	Winner Announcement	October 29 th 2026

VII. Prizes

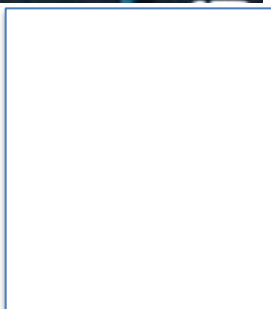
Winners ranked 1st through 6th will receive a **Cash Incentive and a Certificate.**

All participants who meet the minimum score criteria will receive a certificate.

VIII. Judges



TS. Dr. Nur Rashid
Universiti Teknikal Malaysia Melaka



Dr. Kathleen Ebor Padrigalan
Associate Professor, Department Head of
Electro-Mechanical Technology
College of Technology University of Science
and Technology of Southern Philippines



Dr. Ir. Risdiyono, S.T., M. Eng., IPM
BKSTM Learning Center

IX. Contact

For more information about the competition, participants could contact the committee.

Contact: saparin@ubb.ac.id (Saparin)

Contact person (WhatsApp only): +6285268103132 (Saparin)

+62082371674383 (Nanda)

PROPOSAL
TOOL DESIGN COMPETITION
UNIVERSITAS BANGKA BELITUNG 2026

(University logo, in color)

TITLE OF ASSISTIVE TOOL DESIGN

.....

Proposed by:

- (Team Leader's Name / Student ID)
- (Member 1's Name / Student ID)
- (Member 2's Name / Student ID)
- (Member 3's Name / Student ID)

DEPARTMENT/MAJOR/STUDY PROGRAM

FACULTY

NAME OF UNIVERSITY

COUNTRY

2026

STATEMENT OF ORIGINALITY
INTERNATIONAL ASSISTIVE TOOL/EQUIPMENT DESIGN COMPETITION 2026

The undersigned, representing the team of the International Assistive Tool/Equipment Design Competition 2026, with the proposal entitled:

.....

.....

Team Leader's Name :

Country of Origin :

University Name :

E-mail Address (optional) :

.....

Phone Number :

hereby declare that the paper/manuscript and design submitted to the International Assistive Tool/Equipment Design Competition of Universitas Bangka Belitung 2026 is truly our own original work, is not a plagiarism of another party's work, and has never been entered into any other competition nor published anywhere previously.

Should it later be found that this paper/manuscript/design does not conform to this statement, it will automatically be disqualified. This statement is made truthfully.

City Name, date month 2026

Declared by,

(.....)

