



**PAPER WRITING  
COMPETITION  
2022**



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## **Young Inventors Journal Paper Writing Competition 2022 Report**

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# THANK YOU

KLAY EnerSol (M) Sdn. Bhd.

Free Malaysia Today (FMT)

Institut Pendidikan Guru Malaysia (IPGM)

Mentors

Parents

Participants

And

Judges, Volunteers and Event Committee Members





## **Working Group Committee of Young Inventors Journal (YIJ) Paper Writing Competition 2022**

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ASTI Secretariat Representative  
**Ms. Caroline Maria**

Chief Judge  
**Pn. Nurul Nadiah Hamidon**

Committee Members  
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**Pn. Lailati Bt. Mohd. Noh**  
**En. Shamsul Sanirum**

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## EXECUTIVE SUMMARY

The fourth paper writing competition, titled “How to Rebuild a Better World Post Covid-19: Economics, Entrepreneurship & Livelihood,” was funded by KLAY EnerSol (M) Sdn. Bhd. and Firdaus Press Sdn Bhd. The paper writing competition is part of Young Inventors Journal (YIJ) initiative to encourage young people to think critically and systematically about a particular subject and communicate them in a written form. We hope to provide participants with a platform to articulate their ideas on reshaping the world in the aftermath of Covid-19, particularly in the realms of Economics, Entrepreneurship & Livelihood. Recognizing that the younger generation would inherit this world, the competition also aimed to nurture the discipline of writing well-researched and comprehensive papers on topics of relevance to them.

The collaboration for this competition involved key partners, including Institut Pendidikan Guru Malaysia (IPGM), KLAY EnerSol (M) Sdn. Bhd., and Free Malaysia Today (FMT), which served as the media partner.

The launch of the Young Inventors Journal (YIJ) Paper Writing Competition 2022 took place on 21 September 2022. In conjunction with the paper writing competition, ASTI also organised the first ever ASTI Socrates Dialogue (ASD), with visionaries and experts on the subject in question which was attended by YB Saraswathy Kandasamy, the Deputy Minister of Entrepreneurship Development & Cooperative.

ASTI received a total of 37 entries, out of which 36 paper proposals were submitted. Subsequently, 35 of these proposals were invited to submit a full paper. Shortlisted participants were notified via email, accompanied by paper writing guidelines, modules, and training videos to aid them in the subsequent stages of the competition.

A total of 27 full papers were submitted, which were then distributed to a panel of 15 judges for evaluation. A virtual training session was organized to guide the judges through the marking process.

Following the completion of the marking and shortlisting phases, the top 8 participants were contacted through email and invited to participate in an online viva session to determine the winners of the Bronze, Silver, Gold, and Platinum Awards.

A Virtual Prize Giving Ceremony was conducted to announce the winners of the YIJ Paper Writing Competition 2022, where the recipients of the Bronze, Silver, Gold, and Platinum Awards were revealed.

In conclusion, the YIJ Paper Writing Competition 2022 achieved significant success and garnered good response from participants and partners alike.

“Look after the land and the land will look after you, destroy the land and it will destroy you.”  
- *Aboriginal Proverb*

# 1. INTRODUCTION

## 1.1 Summary of Young Inventors Journal Paper Writing Competition 2022

The Association of Science, Technology, and Innovation (ASTI) is a group of educators, scientists, industry leaders, and individuals dedicated to strengthening the scientific community's role in encouraging the nation's young to pursue and excel in STEM and Innovation. ASTI, a non-governmental organization (NGO), is dedicated to empowering young people through various initiatives such as the Science Fair for Young Children (SFYC), Young Inventors Challenge (YIC), ASTI Leap Challenge (ALC), ASTI Progressive Learning and Understanding Science (A-PLUS) program, ASTI Feynman Challenge (AFC) and many more.

YIJ is an online research journal for young people to develop and write well researched solutions for the issues pertinent today. Accordingly, YIJ hopes to empower the young with their new ideas and inventions. We maintain high standards for publication with the guidance of our dedicated experienced Science Advisory Board, consisting of professional researchers. YIJ also allows anyone to submit a paper and they need not be affiliated with any academic or research organisations.

Under the banner of Young Inventors Journal, we held our first paper writing competition for young people between the ages of 13 and 18 years old in 2019. The competition's general theme was "How to Conserve and Save Water."

Following the success of the first paper writing competition, ASTI held a second competition with the theme "How to Rebuild a Better World Post Covid-19 for Education." Participants were aged 18 to 40 years old. The third paper writing competition was titled "Reinventing A Better Future Post Covid-19 for Social Wellbeing & Mental Health".

The fourth paper writing competition was launched on 21 September 2022 and concluded on 12 April 2023. The title of the competition was "How to Rebuild a Better World Post Covid-19: Economics, Entrepreneurship & Livelihood".

## 1.2 Background

The competition was open to teams or individual paper writers. The papers were either written by the writers alone or in teams of no more than five (5) people. Based on their description of the problem they have identified, and they will have to provide solution(s) and justifications for any suggested solution(s). The article had to be concise and thoroughly researched. The explanation should be supported by the authors' own research, such as a case study that contains their own data obtained from the pertinent stakeholder(s) or experiments/tests/surveys/reviews in relation to the writers' solution or invention.

The solution can be in any format. It could be a product, a methodology, a process, or even a government policy recommendation. Their solution should be useful for individuals, governments, Non-governmental organisations, and others. The writer(s) should also specify whether their solution is targeted at a certain segment or is applicable to everybody. Due to the requirement of the paper to be concise and adequate depth, we encouraged the writers to focus on only one problem and one solution in their paper submission.

### 1.3 Objectives

The objectives of the paper writing competition are:

- to create public awareness of the current world order.
- to identify ways to bring about change to this order.
- to extend suggestions to responsible/ interested parties for action.
- to help young people identify real-world problems and produce real-world solutions relevant to their daily lives.
- to help people think more critically.
- to help the young build the discipline of writing a well research-based paper.



## 2. MODE OF IMPLEMENTATION

Upon receiving financing from the project funder, ASTI formed a Working Group to implement the Young Inventors Journal (YIJ) Paper Writing Competition 2022. This dedicated Working Group Committee was responsible for the entire implementation process of the competition. It included representatives from ASTI Secretariat, the YIJ Editorial Board, and key partners. The partners collaborating in this competition included the Institut Pendidikan Guru Malaysia (IPGM), KLAY EnerSol (M) Sdn. Bhd., and Free Malaysia Today (FMT), who served as the media partner. ASTI proposed to the Institut Pendidikan Guru Malaysia (IPGM) that they actively encourage their students to participate in this paper writing competition.

In addition to IPG students, anyone between the ages of 18 and 40 years old could participate in the competition. Participants in the competition could either be individuals or teams of no more than five (5) people. Participants were required to submit an academic paper addressing the problems presented with the solution. This is an online based competition.

The YIJ Working Group Committee had discussions on how to organise and implement the YIJ Paper Writing Competition.

### Milestones for YIJ Paper Writing Competition 2022

| Milestones of YIJ Paper Writing Competition 2022 (September 2022 – April 2023) |                                |
|--|--------------------------------|
| Item   | Time Frame                     |
| Development & Distribution of YIJ poster                                       | September 2022 – November 2022 |
| Paper Writing Module development   | September 2022                 |
| Team registration  | September 2022 – November 2022 |
| Forming YIJ working group committee  | September 2022                 |
| Paper proposal review  | November 2022                  |
| Training video development   | September 2022                 |
| Dissemination of training videos and guideline to the shortlisted participants | December 2022                  |
| Received papers from participants  | December 2022 – January 2023   |
| Judges training  | January 2023                   |
| Paper marking  | February 2023                  |
| Announcement of top 8 papers for online viva                                   | March 2023                     |
| Online viva  | March 2023                     |
| Virtual winners announcement   | April 2023                     |
| Post-mortem of YIJ Paper Writing Competition 2022                              | May 2023                       |
| Final report preparation   | May 2023 – June 2023           |

Young Inventors Journal (YIJ) Paper Writing Competition 2022 was launched on 21 September 2022. Details about the competition, including the poster and essential information, were widely circulated through various channels such as WhatsApp, email, the ASTI website, as well as the official ASTI Facebook and Instagram pages. Those who wished to participate in the competition had until 29 November 2022 to complete their registration.



SERIES C : ECONOMICS

# YOUNG INVENTORS JOURNAL



PRESENTS AN INTERNATIONAL COMPETITION ON:

## HOW TO REBUILD A BETTER WORLD POST COVID-19: Economics, Entrepreneurship & Livelihood

The Covid-19 pandemic has compelled us to make so many changes in our life and work. Can we use this opportunity to change towards a better future for us and the next generation? Let's get involved and make this change happen!

THE PAPER COMPETITION

- 🕒 Participants need to look at specific problems or issues that they feel requires to be addressed and propose what they think would be a viable and equitable solution.
- 🎯 Choose an issue related to economic development, entrepreneurship and/or livelihood.
- 📄 Your paper can be from the perspective of business, government, consumer, etc.

THE PAPER ENTRY CRITERIA

- 🕒 18-40 years old
- 👥 Individual/team of no more than 5 persons
- 📄 Number of words: Maximum 3,000 words
- 🗣️ Language: English
- 📺 Online training will be provided

THE PAPER REQUIREMENTS

- 🔧 The solution can be a product, methodology, process or even a government policy
- 👤 The solution should be useful for an individual or government or civil society, etc.

All papers that meet with the required standards set by the Young Inventors Journal (YIJ) rules & regulations will receive an online certificate of participation; e-mailed to the author and may be published in our online journal, Young Inventors Journal portal: [www.younginventorsjournal.com](http://www.younginventorsjournal.com) (T & C Apply).

For more details, kindly contact ASTI via email at [yijasti@gmail.com](mailto:yijasti@gmail.com) or 014 - 712 4217 (WhatsApp only). To register and for more details, please visit the link below :

Organised by:



ASSOCIATION OF SCIENCE, TECHNOLOGY & INNOVATION

Powered by:



Partner:



KEMENTERIAN PENDIDIKAN MALAYSIA  
Institut Pendidikan Guru Malaysia

Media Partner:



**PRIZES FOR**



**1 Platinum Award**  
**RM 1500**

**1 Gold Award**  
**RM 1000**

**2 Silver Awards**  
**RM 700 per team**

**2 Bronze Awards**  
**RM 500 per team**

Organised by the **Association of Science, Technology & Innovation (ASTI)** - a Malaysian based non-governmental organisation with global partners which is dedicated towards empowering young people in innovative thinking and responsible action.

[www.asti.org.my/postcovid\\_economics](http://www.asti.org.my/postcovid_economics)



A briefing via YouTube was organised on 19 October 2022 at 4.00 p.m. The briefing was scheduled with the purpose of informing the public and participants about the competition. Dr. Mohamed Yunus Yasin led this informative session.



**SERIES C : ECONOMICS**

# **YOUNG INVENTORS JOURNAL**

**HOW TO REBUILD A BETTER WORLD POST COVID-19:  
ECONOMICS, ENTREPRENEURSHIP & LIVELIHOOD  
PAPER WRITING COMPETITION**

**JOIN US FOR  
THE BRIEFING SESSION ON YOUTUBE LIVE**

**DATE: 19 OCTOBER 2022, WEDNESDAY  
TIME: 4.00PM  
LINK: [HTTPS://RB.GY/3IIKCC](https://rb.gy/3iikcc)**

**[www.asti.org.my/postcovid\\_economics](http://www.asti.org.my/postcovid_economics)**



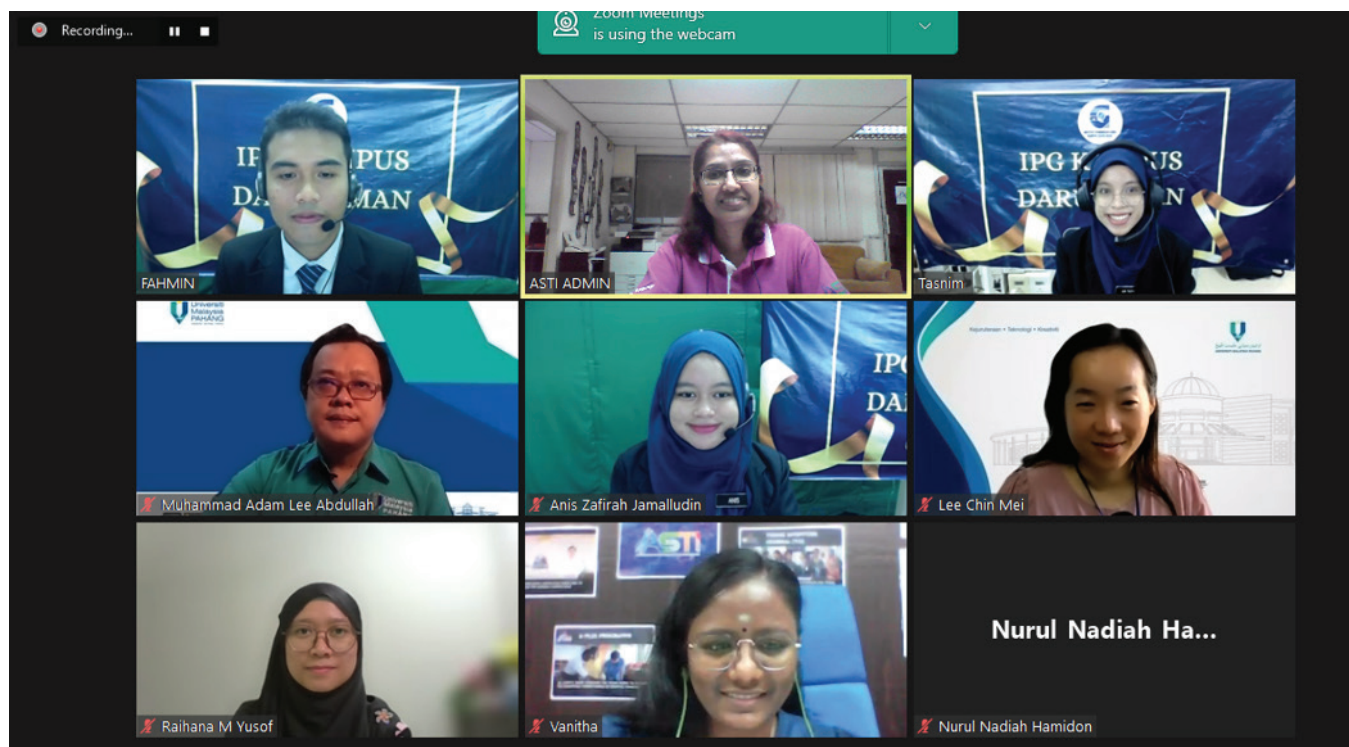
Dr. Mohamed Yunus Yasin

The briefing video is available at <https://rb.gy/3iikcc>

ASTI received 36 paper proposals out of a total of 37 registrations, comprising both teams and individuals. Before proceeding to the next stage of full paper writing, a panel of judges meticulously reviewed and evaluated these submitted paper proposals. Ultimately, 35 paper proposals were selected to proceed to the next phase of paper writing. Additionally, comprehensive resource materials and template guidelines were shared with them to assist in the next step of the competition.

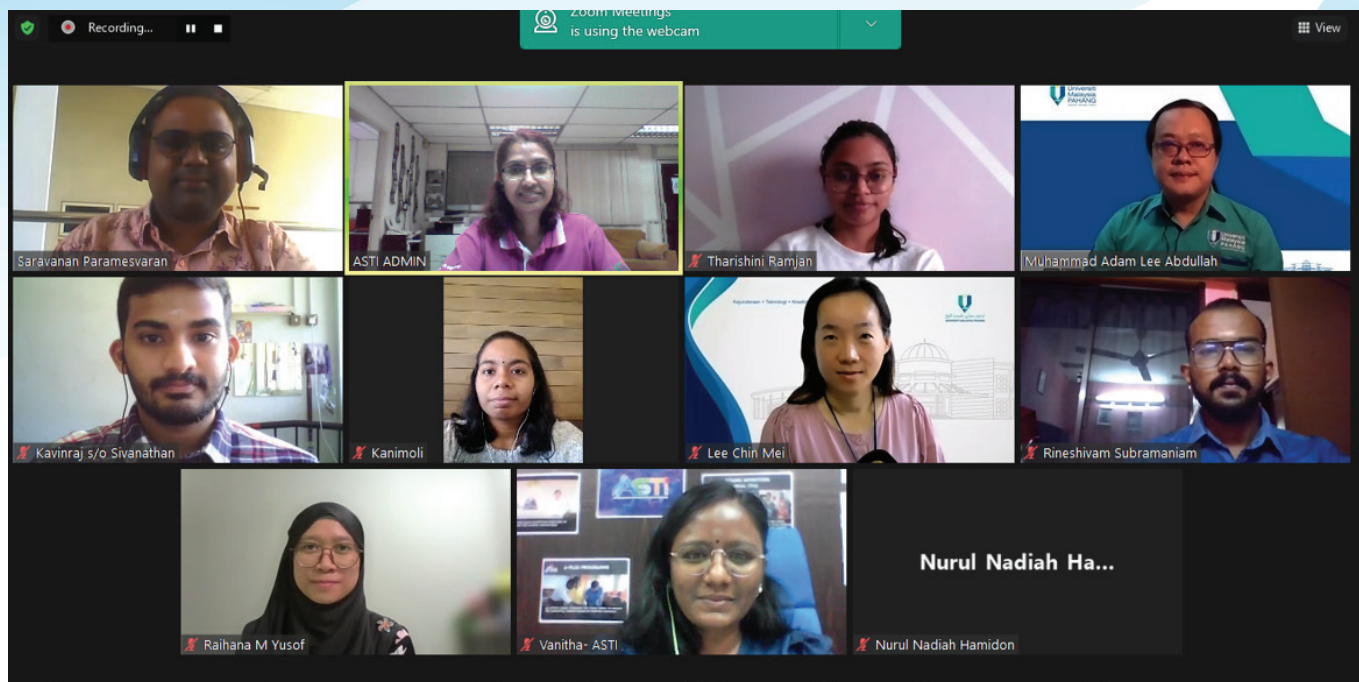
Participants were required to complete and submit their full papers by 31 January 2023. A total of 27 full papers were submitted. The submitted papers were distributed to the judges for evaluation from 4 February 2023 until 17 February 2023. On 28 January 2023, a virtual training session was conducted to provide the judges with instructions on the marking process.

After the completion of the marking and shortlisting process, the top 8 participants were contacted via email and invited to participate in an online viva. The shortlisted participants received a comprehensive guideline via email on 3 March 2023 to help in their preparation for the viva. On 18 March 2023, an online viva was conducted by a panel of four (4) judges. Subsequent to the viva session, the judges meticulously evaluated the participants and determined the recipients of the Platinum, Gold, Silver, and Bronze Awards.

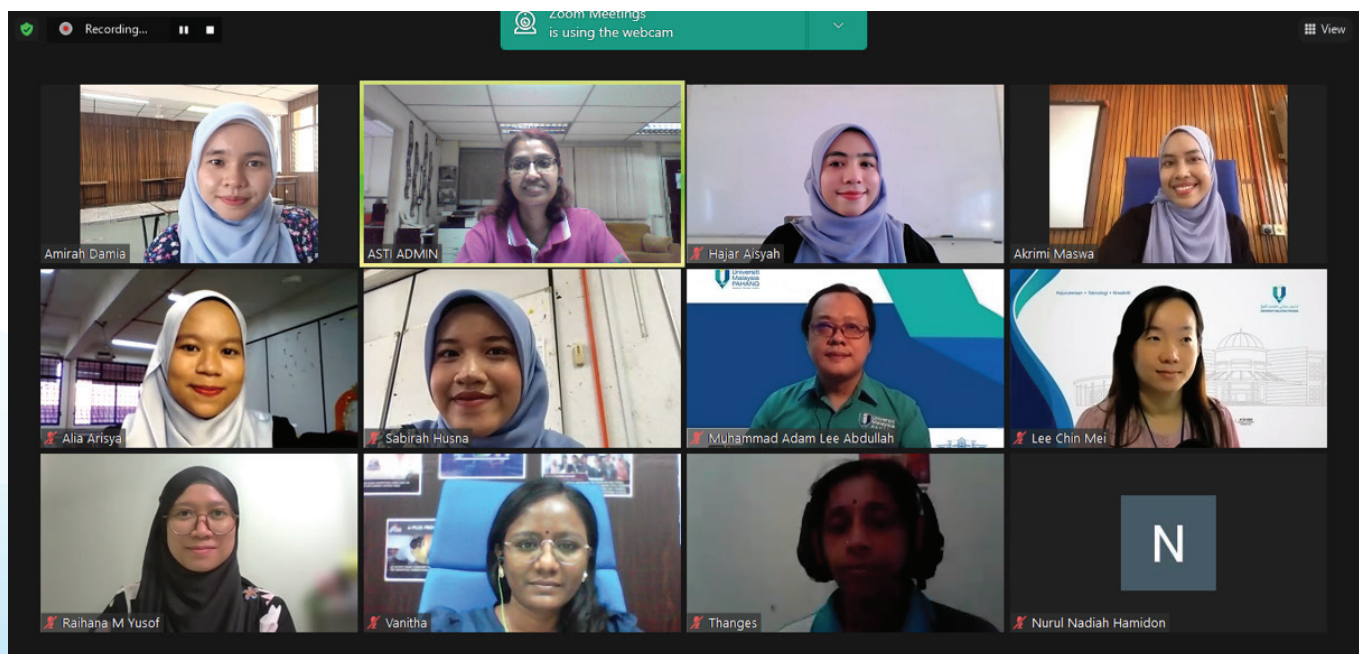


Team Kaizen



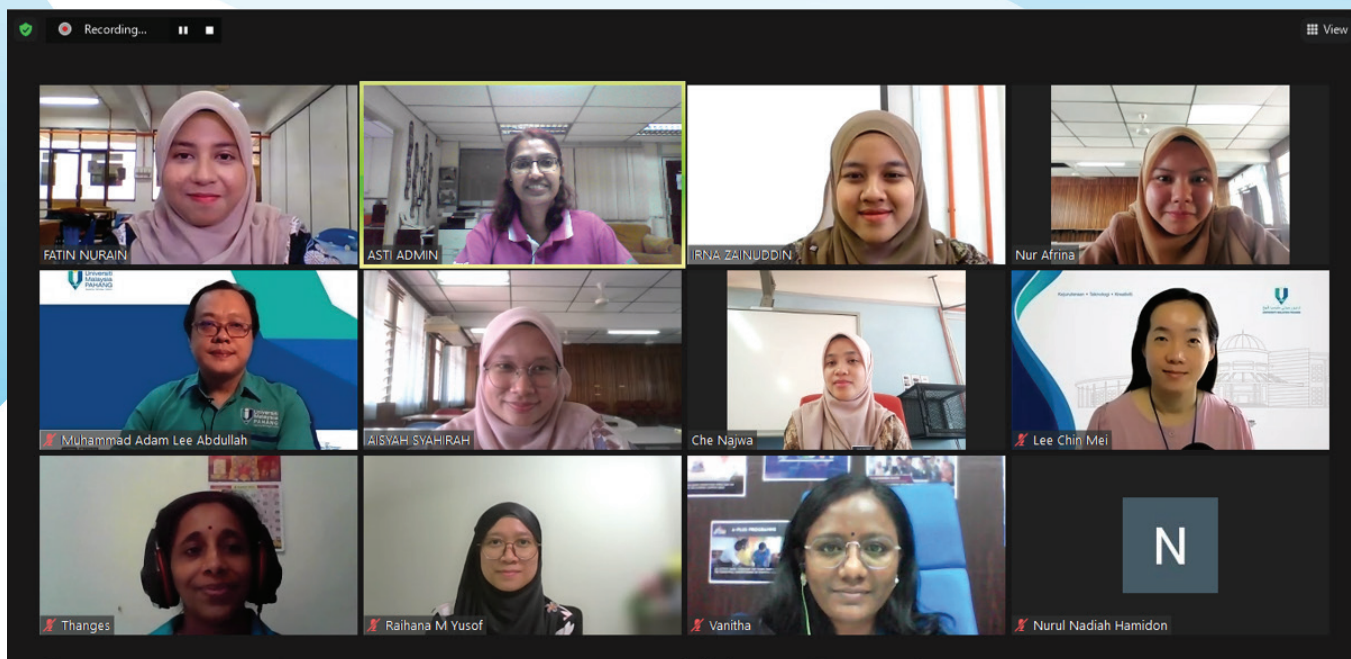


Team QR Alphabet

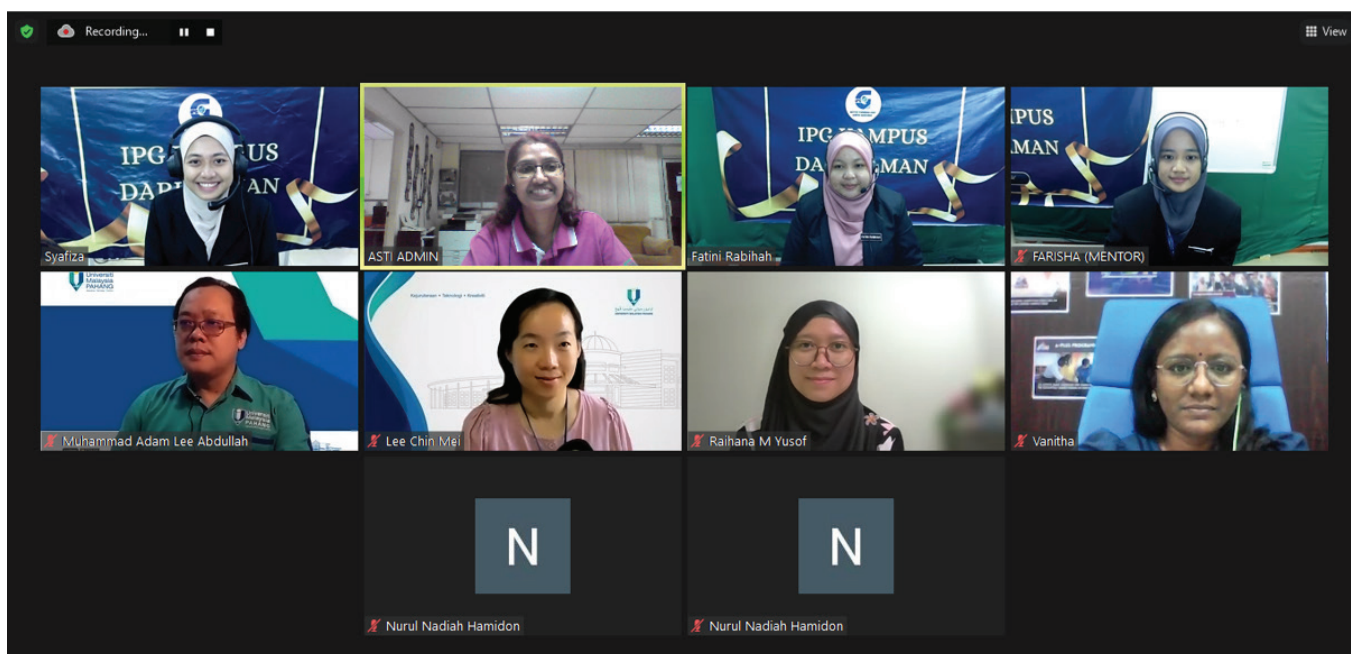


Team Workhut

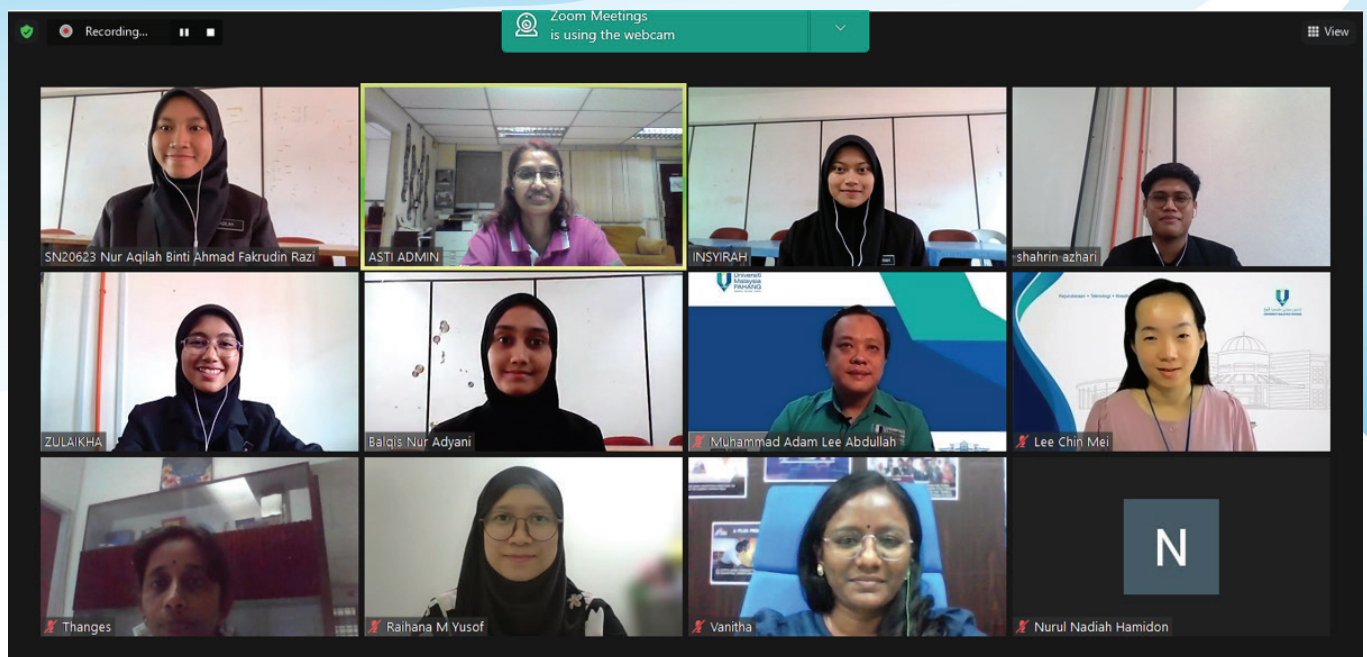




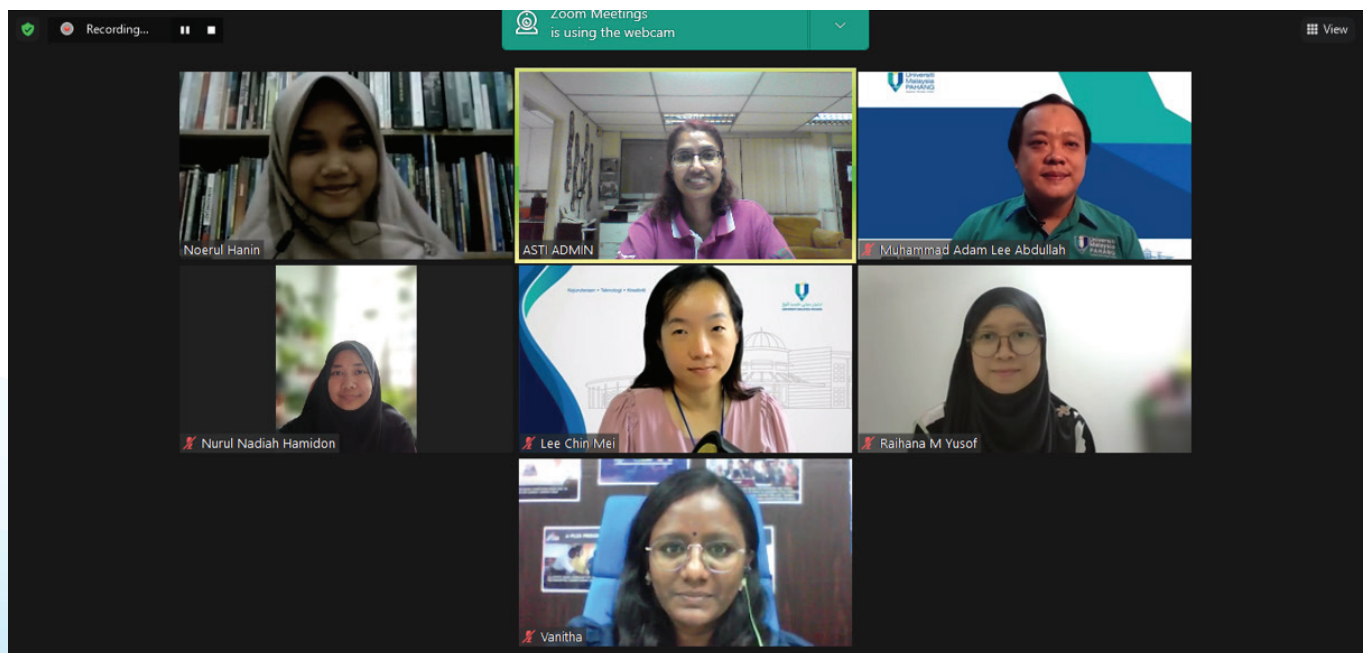
Team Youngster



Team Erudite



Team STEM 1



Team D'Ecorise





Team Zealous

The Virtual Prize Giving Ceremony took place on 12 April 2023 at 5.00 p.m., and it was broadcasted on YouTube to announce the recipients of the Platinum, Gold, Silver, and Bronze Awards. For the paper writing competition, there was a Platinum Award, a Gold Award, two Silver Awards, and two Bronze Awards. The paper writing competition was held in English language.

**SERIES C : ECONOMICS**

# **YOUNG INVENTORS JOURNAL**

**PAPER WRITING COMPETITION 2022**  
**HOW TO REBUILD A BETTER WORLD POST COVID-19:**  
**ECONOMICS, ENTREPRENEURSHIP & LIVELIHOOD**

## **VIRTUAL WINNERS** **ANNOUNCEMENT CEREMONY**

**12 April 2023, Wednesday**  
**5.00pm**  
<http://shorturl.at/dnGJT>

[www.asti.org.my/postcovid\\_economics](http://www.asti.org.my/postcovid_economics)





**ORGANIZER:**



**PARTNERS:**




In conjunction with the paper writing competition, a virtual talk on entrepreneurship was held. The virtual talk by Professor Simon Mosey from University of Nottingham, United Kingdom was held on 23 November 2022. The talk titled “How Entrepreneurs can Create Positive Change in the World” aimed to provide valuable insights to participants in their paper proposal writing process.



Professor Simon Mosey

The short online lecture is available at  
<https://www.youtube.com/watch?v=lzY5WsjVXsE>

In addition to the virtual talk, the first ever ASTI Socrates Dialogue (ASD) was organised with visionaries and experts on the subject in question. The hybrid event was conducted on 10 February 2023 at Persatuan Alumni Universiti Malaysia, Kuala Lumpur. Discourse participants are stated below:

Table 1: Discourse Participants

| Name                                 | Profession  |
|--------------------------------------|---|
| Dato' Prof. Ulung Rajah Rasiah       | Professor of Economics at the Asia Europe Institute, University of Malaya                                 |
| Tan Sri Dato' Azman bin Haji Mokhtar | Former CEO of Khazanah Nasional and Chairman of both Tabung Haji and Universiti Teknologi Malaysia Boards |
| Khailee Ng                           | Managing partner at U.S. venture capital firm 500 Global  |

The discourse was moderated by Mr. Imran Ahmad, author and former Director at Khazanah Nasional. The dialogue was attended by YB Saraswathy Kandasamy, the Deputy Minister of Entrepreneurship Development & Cooperative.









The recording of the event is available at <https://youtu.be/SRX3uqXVF3w>

Below are the details of registration:

Table 2: Number of Registration by States

| State           | Number of Registration |
|-----------------|------------------------|
| Selangor        | 1                      |
| Kedah           | 11                     |
| Penang          | 9                      |
| Perak           | 1                      |
| Terengganu      | 4                      |
| Negeri Sembilan | 3                      |
| Melaka          | 1                      |
| Sabah           | 3                      |
| Sarawak         | 1                      |
| Kuala Lumpur    | 1                      |
| Indonesia       | 1                      |
| Philippines     | 1                      |
| <b>Total</b>    | <b>37</b>              |

Table 3: Number of Paper Submission by states:

| State           | Number of Registration |
|-----------------|------------------------|
| Selangor        | 1                      |
| Kedah           | 11                     |
| Penang          | 3                      |
| Perak           | 1                      |
| Terengganu      | 4                      |
| Negeri Sembilan | 1                      |
| Melaka          | 1                      |
| Sabah           | 1                      |
| Sarawak         | 1                      |
| Kuala Lumpur    | 1                      |
| Indonesia       | 1                      |
| Philippines     | 1                      |
| <b>Total</b>    | <b>27</b>              |

## 3. TRAINING AND DEVELOPMENT

### 3.1 Training Preparations and Progress

The paper writing modules are an important resource for students to use in order to write academic style paper effectively and efficiently. These modules served as a guideline for the YIJ paper writing competition. The paper writing modules were developed by some members of the Young Inventors Journal Editorial Board which are academics and professionals. Besides the modules, training videos were also developed to assist students with their paper writing. ASTI sent the modules and training videos to the students by email. The modules were also uploaded on the ASTI website.

The list of Modules/ Guideline developed for the paper writing competition are:

- i) Module 1 – A Guide to Write Paper Proposal in an Academic Style Paper
- ii) Module 2 – A General Guide to ASTI Paper Writing Competition
- iii) Module 3 – Guide to Form a Research Problem Statement
- iv) Module 4 – Some Ideas on Topics for Research
- v) Module 5 – Overall Guide to Writing an Academic Paper
- vi) Module 6 – A Guide to Policy Paper Writing
- vii) Module 7 – A Guide to Review Paper Writing
- viii) Module 8 – A Guide to Write a Technical Research Paper
- ix) Module 9 – A Guide to Write an Invention-Innovation Paper
- x) Module 10 – A Guide to Write an Abstract in an Academic Style Paper
- xi) Module 11 – Guide to Use Reference Manager (EndNote & Mendeley Software)
- xii) Guideline to Paper Presentation
- xiii) Endnote Reference Manager
- xiv) Mendeley Reference Manager

The list of Videos developed for the paper writing competition 2022 are:

- i) Training Video 1 - Training for Shortlisted Participants
- ii) Training Video 2 - A Guide to Policy Paper Writing
- iii) Training Video 3 - A Guide to Review Paper Writing
- iv) Training Video 4 - What is a Technical Paper
- v) Training Video 5 - Invention/Innovation Paper
- vi) Training Video 6 - General Tips

We hope that the modules and videos helped the participants in their paper writing and would be useful in their future paper writing.

In order to help judges with paper marking, the YIJ Judging Panel developed a guideline (rubric), and provided training to all judges using this same guideline.

## 4. RESEARCH AND DEVELOPMENT

### 4.1 Analysis Summary

An email containing a Google survey form was sent out to participants of the YIJ Paper Writing Competition. The objective of this survey is to gather valuable data that will be utilized to improve the YIJ paper writing competition in the coming years.

The summary of the survey are as follows:

#### *Participant Survey*

Based on our survey findings, it is evident that the participants expressed overall satisfaction with the event. They found the organizer's modules and training videos to be highly valuable in the context of the paper writing competition. Additionally, the participants acknowledged that they gained substantial knowledge and skills through their participation in the competition. Notably, the students have expressed a keen interest in not only participating in future paper writing competitions but also in participating in similar contests.



## 5. YIJ PRIZE GIVING CEREMONY 2022

The YIJ Paper Writing Competition 2022 Prize Giving Ceremony was held virtually on 12 April 2023 at 5.00 p.m. via YouTube.



Ms. Siti Nur Fathiah Kamarulazam, the moderator of the Virtual Prize Giving Ceremony, extended a warm welcome to all attendees and gave a brief introduction.



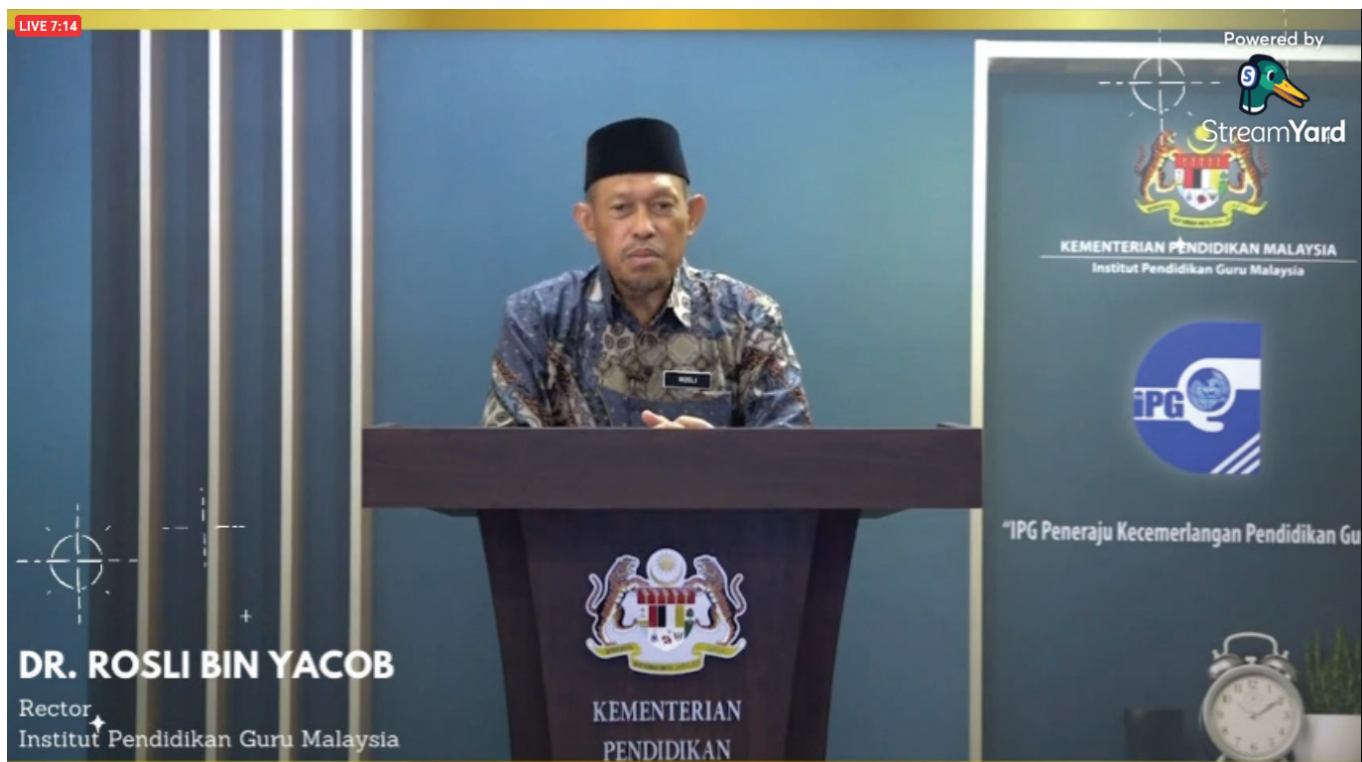
Ms. Siti Nur Fathiah Kamarulazam, Moderator



Following the Moderator's introductory remarks, Dr. Mohamed Yunus Yasin, the President of ASTI, delivered his opening and welcoming address. In his speech, he extended his congratulations to the winners and encouraged all other participants to persevere in their efforts. Dr. Yunus also shared exciting news, announcing that the upcoming paper writing competition will be launched soon. He extended an invitation to the participants to take part in this upcoming competition.



Next on the agenda was a speech delivered by Dr. Rosli Bin Yacob, the Rector at Institut Pendidikan Guru Malaysia (IPGM) where he expressed his satisfaction with the programme.



Next was a speech by Mr. Yunus Sajad Hussein, the Chief Executive Officer of KLAY EnerSol Sdn. Bhd., the funder of the paper writing competition where he thanked and appreciated the participants for taking their time and effort to participate in the competition.



The Virtual Live event continued with a multimedia presentation of the announcement of the winners of the competition.

The following are the details of the winners:

Table 4: List of Platinum Award Winner

| Team Name                                | Participant's Name | Paper Title   |
|--|--------------------|---|
| D'ECORISE<br>(TANJUNGPURA<br>UNIVERSITY) | NOERUL HANIN       | DECISION SUPPORT ANALYSIS WITH<br>THE AHP-TOPSIS METHOD IN MICRO<br>-ENTERPRISES FUNDING OF SAMBAS<br>REGENCY – INDONESIA |

The recipient of the Platinum Award was granted a cash prize of RM1,500.00 along with an e-certificate.





Noerul Hanin  
Platinum Award Winner

Table 5: List of Gold Award Winner

| Team Name                            | Participant's Name                 | Paper Title   |
|--------------------------------------|------------------------------------|---|
| ERUDITE<br>(IPG KAMPUS<br>DARULAMAN) | NUR FATINI RABIHAH<br>BINTI RAZAKI | EDU BOX: SUPPORTING SELF DIRECTED<br>LEARNING WITHIN FUN EDUCATIONAL<br>GAMES |
|                                      | NUR SHAFIZA BINTI<br>SHARIPUDIN    |   |

The recipient of the Gold Award received a cash prize of RM1,000.00 along with an e-certificate.



Team Erudite  
Gold Award Winner

Table 6: List of Silver Award Winners

| Team Name                                     | Participant's Name                      | Paper Title   |
|---|---|---|
| STEM 1<br>(IPG KAMPUS SULTAN<br>ABDUL HALIM)  | ZULAIKHA BINTI<br>AHMAD KAMAL AZIRA     | DIGITAL MARKETING METHODS<br>FOR ENTERPRISES IN THE<br>POST-COVID ERA                             |
|   | MUHAMMAD SHAHRIN<br>BIN AZHARI          |   |
|   | BALQIS NUR ADYANI<br>BINTI ZULHAZMI     |   |
|   | NUR INSYIRAH BINTI<br>SAHARDI           |   |
|   | NUR AQILAH BINTI<br>AHMAD FAKRUDIN RAZI |   |
| WORKHUT<br>(IPG KAMPUS SULTAN<br>ABDUL HALIM) | NUR ALIA ARISYA BINTI<br>MOHAMAD JAMIL  | COVID-19 UNEMPLOYMENT IN<br>MALAYSIA: WORKHUT AS A NEW<br>OPTION FOR PROMOTING ECONOMIC<br>GROWTH |
|   | AKRIMI MASWA BT<br>MUHAMAD RASHIDI      |   |
|   | HAJAR AISYAH BINTI<br>MOHD FAZLI        |   |
|   | NUR 'AMIRAH DAMIA<br>BT MOHD ROZIS      |   |
|   | NUR SABIRAH HUSNA<br>BT SU              |   |

Silver Award recipients received a cash prize of RM700.00 along with a digital certificate.



Team STEM 1  
Silver Award Winner





Team Workhut  
Silver Award Winner

Table 7: List of Bronze Award Winners

| Team Name  | Participant's Name                            | Paper Title   |
|--|---|---|
| QR ALPHABET<br>(IPG KAMPUS IPOH)                   | SARAVANAN<br>PARAMESVARAN                     | DEVELOPMENT AND EFFECTIVENESS<br>OF THE TAMIL ALPHABET QR MODULE:<br>PROMOTING ENTREPRENEURSHIP<br>AMONG PRE-SERVICE TEACHERS |
|  | KAVIN RAJ SIVANATHAN                          |   |
|  | RINESHIVAM<br>A/L SUBRAMANIAM                 |   |
|  | KANIMOLI<br>A/P ANNATHURAI                    |   |
|  | THARISHINI<br>A/P RAMJAN                      |   |
| YOUNGSTER<br>(IPG KAMPUS<br>SULTAN ABDUL<br>HALIM) | NUR AFRINA BINTI<br>SHAHARUDIN                | THE EFFECTIVENESS OF "BESTTOR<br>APPLICATION" FOR A BETTER<br>LIVELIHOOD DURING POST COVID-19                                 |
|  | FATIN NURAIN SYAMIMI<br>BINTI ABD MANAF       |   |
|  | CHE NURUL NUR<br>HIMADATUL NAJWA<br>MOHD NOOR |   |
|  | IRNA BINTI ZAINUDDIN                          |   |
|  | AISYAH SYAHIRAH<br>BINTI MAZLAN               |   |



Recipients of the Bronze Award received a cash prize of RM500.00 along with a digital certificate.



Team QR Alphabet  
Bronze Award Winner



Team Youngster  
Bronze Award Winner

The winners announcement video is available at <http://shorturl.at/dnGJT>



## 6. PUBLIC RELATIONS/MEDIA

The Public Relations (PR) Department managed the flow of information between the organisers and the general public for the Young Inventors Journal Paper Writing Competition 2022. The competition's details were communicated to the public via a press release and a live YouTube video broadcast.

- The project poster was sent to all stakeholders and the public.
- The ASTI Newsletter, ASTI website, ASTI Instagram, and ASTI Facebook were used to disseminate information to ASTI's various broadcast list.

The YIJ Paper Writing Competition 2022 received coverage in media such as The Free Malaysia Today on 28 September 2022.

Below is the article published on The Free Malaysia Today:

### Submission call for ASTI's Young Inventors Journal writing contest

This year, the competition is titled 'How To Rebuild a Better World Post Covid-19: Economic, Entrepreneurship & Livelihood'.

FMT Reporters - 28 Sep 2022, 8:00am



*Interested candidates for ASTI's Young Inventors Journal Paper Writing Competition should submit a paper proposal by Nov 15. (ASTI pic)*

PETALING JAYA: The Association of Science, Technology and Innovation (ASTI) has launched the Young Inventors Journal (YIJ) Paper Writing Competition, the fourth competition of its kind.

YIJ – an online research journal for the development of well-researched solutions to pertinent issues – hopes to empower the young generation with new ideas and inventions.

Submission to YIJ is open to anyone, with or without affiliation with academic or research organisations. ASTI maintains high standards for publication with the guidance from a dedicated and experienced science advisory board comprising professional researchers.

This year's competition is titled "How To Rebuild a Better World Post Covid-19: Economic, Entrepreneurship & Livelihood". While the pandemic has impacted everyone around the world, it has hit different communities differently, with the poor and homeless being among the worst affected.

Participants are required to look at specific problems related to economic development, entrepreneurship, and livelihood, as well as other related matters that need to be urgently addressed.

You should propose equitable and viable solutions to these challenges, whether they be in the form of a product, methodology, process, or even a government policy; and these solutions should be applicable to individuals, society, or the government, depending on the target demographic of your research.

The paper can be written by a team of not more than five persons, or by an individual, and must be in English with a limit of 3,000 words. Applicants should be between the ages of 18 and 40.

**Participants stand a chance to win the following:**

- 1 Platinum Award: RM1,500
- 1 Gold Award: RM1000
- 2 Silver Awards: RM700 per team
- 2 Bronze Awards: RM500 per team

All papers that meet YIJ's rules and regulations will receive an online certificate of participation that will be emailed to the author(s). In addition, the winning papers may be published in ASTI's recently launched **online journal**.



Applicants should register by Nov 15 with the submission of a paper proposal.



*ASTI advocates for the promotion of education and understanding of scientific knowledge through projects for schoolchildren. (File pic)*

ASTI, a non-governmental organisation, was established in 2012. It advocates for the promotion of education and understanding of **scientific knowledge** through programmes for young schoolchildren, and expanded at the height of the pandemic to include secondary students through various online projects.

Since its inception, it has garnered more than 650,000 participants from all over South Asia, the United Kingdom, and the United States.

**Last year's** YIJ competition was themed "How to Rebuild a Better World Post-Covid-Social Wellbeing & Mental Health". ASTI's project partners include KLAY EnerSol, In Pendidikan Guru Malaysia, and FMT.

For further information and to register for the paper writing competition, click **here**. Enquiries can also be made by emailing **yijasti@gmail.com**, or sending a WhatsApp message to 014-7124217.

The article is available in the following link:

<https://www.freemalaysiatoday.com/category/leisure/2022/09/28/submission-call-for-astis-young-inventors-journal-writing-contest/>

## 7. ACCOUNTS STATEMENT OF YOUNG INVENTORS JOURNAL PAPER WRITING COMPETITION 2022

The Young Inventors Journal (YIJ) Paper Writing Competition 2022 was funded by KLAY EnerSol (M) Sdn. Bhd.

|   | Amount (RM)      |
|---|------------------|
| <b>INCOME</b>                                     |                  |
| KLAY EnerSol (M) Sdn. Bhd.                        | 30,000.00        |
| <b>TOTAL INCOME</b>                               | <b>30,000.00</b> |
| <b>Less: Expenditure</b>                          |                  |
| <b>(1) Module Development and Licensing</b>       | 6,000.00         |
| <b>(2) Poster Design and Public Relations</b>     | 430.00           |
| <b>(3) Evaluation</b>                             | 1,000.00         |
| <b>(4) Programme Management Fund</b>              |                  |
| Winning Prize:                                    |                  |
| Platinum Award (RM 1500 X 1)                      | 1,500.00         |
| Gold Awards (RM 1000 X 1)                         | 1,000.00         |
| Silver Awards (RM 700 X 2)                        | 1,400.00         |
| Bronze Awards (RM 500 X 2)                        | 1,000.00         |
| Paper Marking & Judging Honorarium                | 925.00           |
| ASTI Socrates Dialogue                            | 4,882.00         |
| <b>Total</b>                                      | <b>18,137.00</b> |
| <b>(5) Operations and Project Management Fund</b> |                  |
| Project Manager (Wages, EPF, SOCSO, Insurance)    | 10,600.00        |
| Project Officer                                   | 19,000.00        |
| Reporting   | 1,000.00         |
| <b>Total</b>                                      | <b>30,600.00</b> |
| <b>Total Expenditure</b>                          | <b>48,737.00</b> |
| Excess of (Expenditure)/Income *                  | -18,737.00       |

\* The excess of expenditure was covered by the Association of Science, Technology and Innovation (ASTI). Part of the salaries due to staffs was also absorbed by ASTI.

## 8. JUDGING

A total of 19 judges, comprising professionals and academics with diverse backgrounds, volunteered to participate in the YIJ Paper Writing Competition 2022 as judges. The YIJ Paper Writing Competition 2022 judging team was overseen by a team of senior judges called the 'Judging Panel'. The judging panel's primary responsibilities included developing the judging rubrics and overseeing the entire judging process. The judging panel created the rubrics for paper marking and conducted online viva for shortlisted teams. Pn. Nurul Nadiah Hamidon served as the Chief Judge of the YIJ Paper Writing Competition 2022 and led both the judging team and the panel. The judges diligently evaluated the participants' papers and conducted online viva to ensure participants adhered to the competition guidelines. It's important to note that the decisions made by the Judging Team was final. The judges operated independently from the organizing committee, ensuring impartiality in the judging process.

### Judges Training

A training session for the judges, aimed at providing them a comprehensive understanding of the paper marking criteria, was held via Zoom Meeting on 28 January 2023, Saturday at 3.30p.m. The training was conducted by Pn. Nurul Nadiah Hamidon, the Chief Judge of YIJ Paper Writing Competition 2022.

### Proposal Marking

Before commencing the writing of their full papers, all participants were required to submit a paper proposal for their respective papers. These paper proposals were subsequently subjected to evaluation, which took place between 22 November 2022 and 29 November 2022. In total, 17 judges had the responsibility to assess the 36 paper proposals that had been submitted. Out of these submitted paper proposals, 35 were approved for the next stage of full paper writing.

### Paper Marking

A total of 27 papers were submitted and 24 papers were accepted to be reviewed by 15 judges. Three (3) judges independently reviewed each papers that were submitted. Paper marking was held from 4 February 2023 until 17 February 2023. The top eight (8) papers were shortlisted after the paper marking was completed. On 3 March 2023, an email invitation was sent out to the top eight teams or individuals, inviting them to participate in an online viva session.

### Online Viva

On 18 March 2023, an online viva was convened through Zoom Meet. The online viva was conducted by four (4) judges from the judging panel to decide the Bronze, Silver, Gold, and Platinum Award winners. They were, Pn. Nurul Nadiah Hamidon, Dr. Lee Chin Mei, Dr. Muhammad Adam Lee bin Abdullah and Puan. Raihana bt Mohd Yusof. The announcement of Bronze, Silver, Gold, and Platinum Award winners took place virtually at 5.00 p.m. on 12 April 2023.

The judges were presented with a digital certificate and a token of appreciation in recognition of their invaluable time and contributions.



## 9. SWOT Analysis

The following is the SWOT analysis and recommendations for future improvements to the YIJ paper writing competition that were suggested via google form.

### Strength:

- ⚙️ ASTI has a well-developed network. Committed Judges were available for the competition, and the judges were the competition's strength as the judging process is not easy.
- ⚙️ The competition's key strength was IPGM's support.
- ⚙️ The competition was well-coordinated and managed.
- ⚙️ IPG students and other young writers were given a great opportunity to hone their academic writing skills.
- ⚙️ Participants found the modules, training videos, and templates provided to be helpful.
- ⚙️ Since the competition was held online, it was designed well with minimal cost.
- ⚙️ The funder for the competition was very supportive.
- ⚙️ The media partner (FMT) helped to promote the competition.

### Weakness:

- ⚙️ Participation was less encouraging.
- ⚙️ There is a need to improve the writing skills of participants

### Threat:

- ⚙️ To have long-term and consistent funding.
- ⚙️ Malaysians' reading and writing culture (and skills) are decreasing in general especially due to video based social media.

### Opportunity:

- ⚙️ To increase the number of participants who enter the paper writing competition.
- ⚙️ The next paper writing competition should focus on topic which is important such as environment related to Covid-19.
- ⚙️ More public and stakeholder input is sought for a paper writing competition on environment related to Covid-19.
- ⚙️ More participation from University students for paper competition can be encouraged.

## 9.1 SWOT Conclusion

- Received positive reception from participants, and it had the potential to grow into national and international level.

## 9.2 Recommendations

- To hold a press conference to highlight the suggestions proposed by the participants. The press conference will be accompanied by newspaper article publication.
- To look for funding from a variety of sources.
- To publish selected YIJ competition papers on Young Inventors Journal website.
- The next paper writing competition should focus on environment post Covid-19.
- More promotions/trainings/surveys are needed to encourage the writing culture among students.

## 10. CONCLUSION

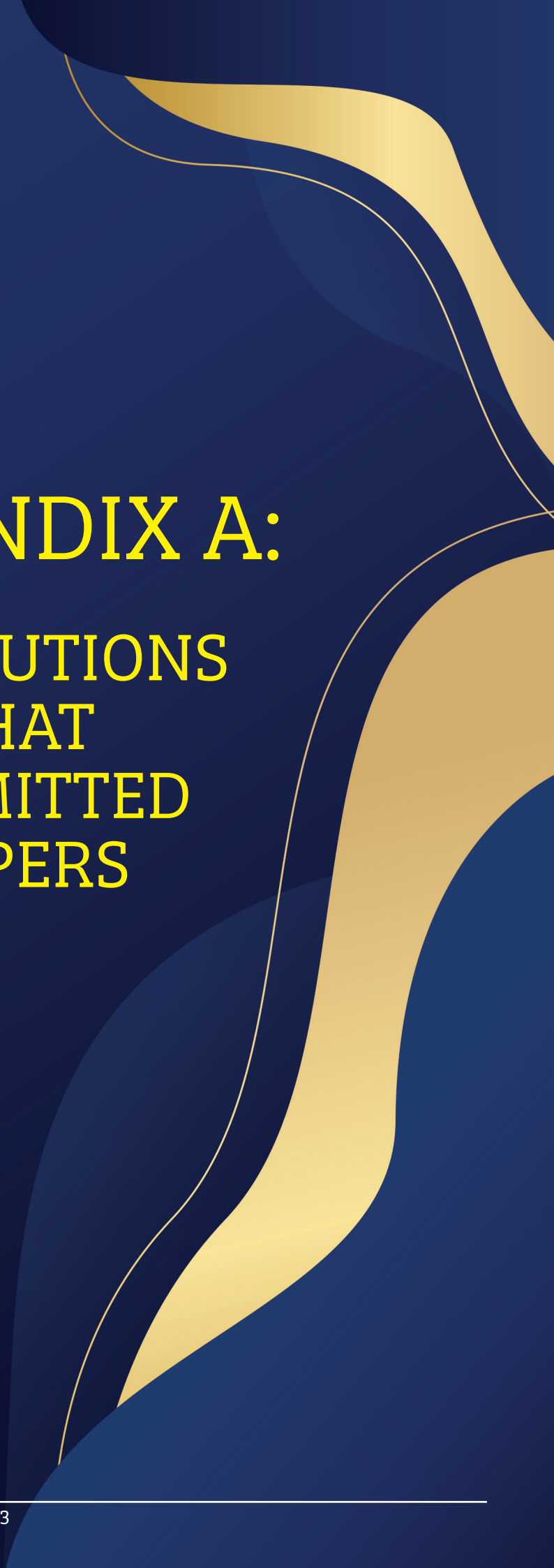
The YIJ Paper Writing Competition 2022 was a successful event for ASTI. There were 37 teams/ individuals registered for the competition, and ASTI received 36 paper proposals. A total of 27 full papers were submitted. This is the fourth time the competition has been held and received a good response. This competition served as a platform for participants to make valuable contributions to our community by proposing solutions to pressing issues in the realms of economics, entrepreneurship, and livelihood that our society faces. Beyond this, it played an important role in nurturing critical and systematic thinking skills among participants, while also fostering the discipline necessary for academic writing, an important skill which is dying.

ASTI will continue to organise more paper writing competitions in the future. However, there is a need to run activities such as writing workshops to encourage young people not to lose the important skill of critical reading and writing.

We express our sincere gratitude to the funder, judges, and volunteers for their invaluable contributions in ensuring the success of this competition.

“No one is an environmentalist by birth. It is only your path, your life, your travels that awaken you”  
- **Yann Arthus-Bertrand (French environmentalist)**





# APPENDIX A:

## INSTITUTIONS THAT SUBMITTED PAPERS

Table 8: Institutes that submitted Papers

| No. | Institute Name  | State           |
|-----|---|-----------------|
| 1.  | Taylor's University                                       | Selangor        |
| 2.  | Institut Pendidikan Guru Kampus Darulam                   | Kedah           |
| 3.  | Institut Pendidikan Guru Kampus Sultan Abdul Halim        | Kedah           |
| 4.  | Institut Pendidikan Guru Kampus Ipoh                      | Perak           |
| 5.  | Institut Pendidikan Guru Kampus Pulau Pinang              | Pulau Pinang    |
| 6.  | Institut Pendidikan Guru Kampus Dato' Razali Ismail       | Terengganu      |
| 7.  | Philippine Science High School - Southern Mindanao Campus | Philippines     |
| 8.  | Institut Pendidikan Guru Kampus Sultan Mizan              | Terengganu      |
| 9.  | Institut Pendidikan Guru Kampus Perempuan Melayu          | Melaka          |
| 10. | Universitas Tanjungpura                                   | Indonesia       |
| 11. | SMK Merbau  | Sarawak         |
| 12. | Institut Pendidikan Guru Kampus Pendidikan Teknik         | Negeri Sembilan |
| 13. | Institut Pendidikan Guru Kampus Gaya                      | Sabah           |



# APPENDIX B:

## SURVEY ANALYSIS



## Participants' Survey Analysis

A Google Form was used to conduct a survey to the participants, who received the survey link via email. The survey was completed by 8 participants in total. The survey's analysis is summarised and discussed below.

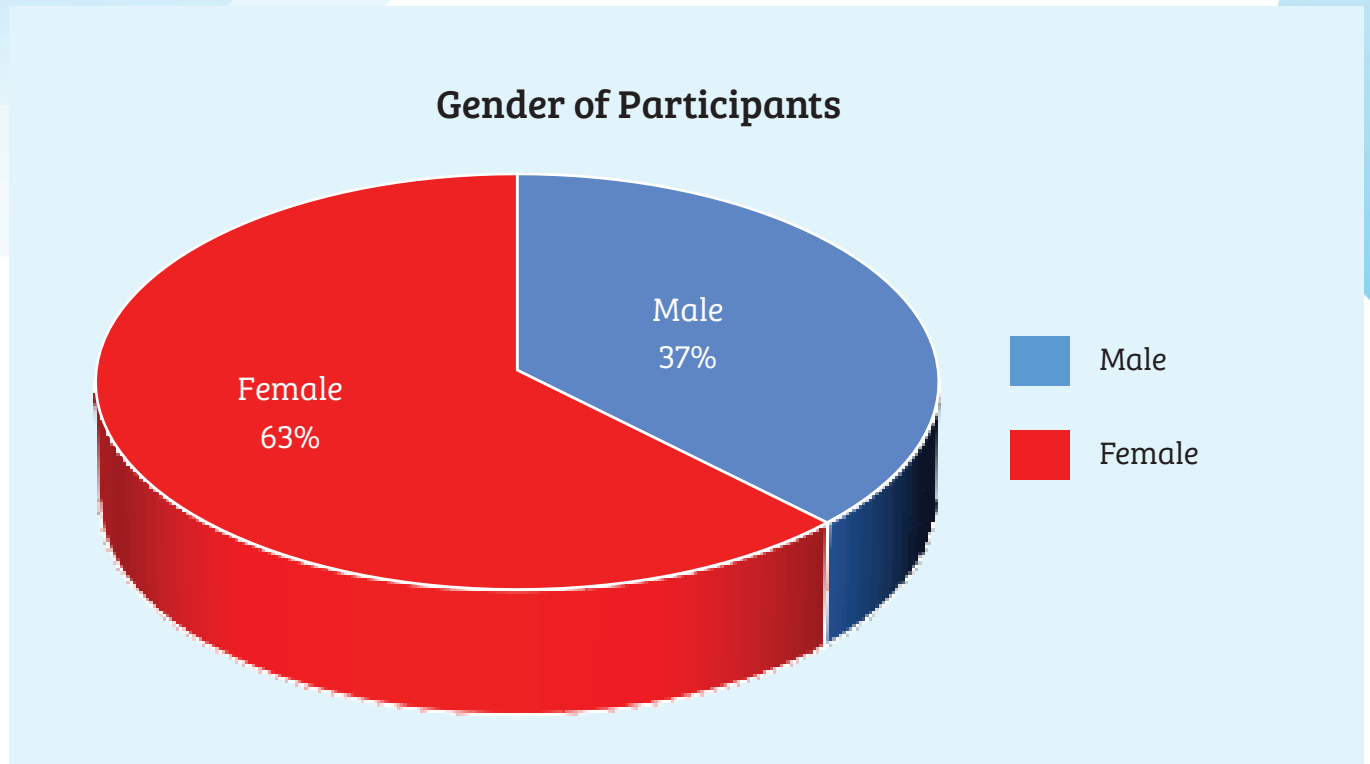


Figure 1: Gender of Participants

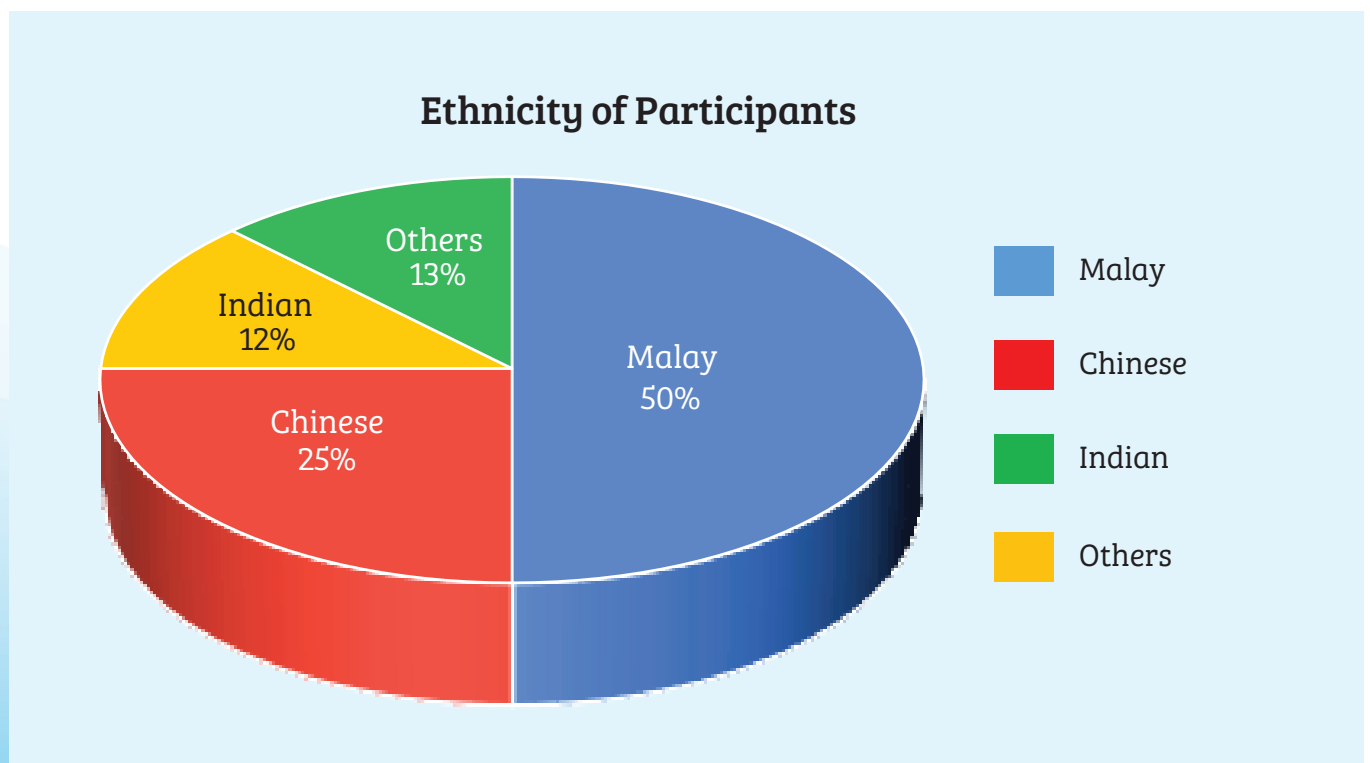


Figure 2: Ethnicity of Participants

Figure 1 provides an overview of the participant demographics, specifically focusing on gender distribution. Figure 2 illustrates the ethnic composition of the participants. As depicted in Figure 1, 63% of the participants who took part in the YIJ Paper Writing Competition were female, with the remaining 37% being male. In Figure 2, it was evident that Malay ethnicity constituted half of the participants, while Chinese ethnicity accounted for 25%. Participants of Indian descent comprised 12% of the total, while the remaining 13% encompassed various other ethnic backgrounds, such as Filipino and Indonesian.

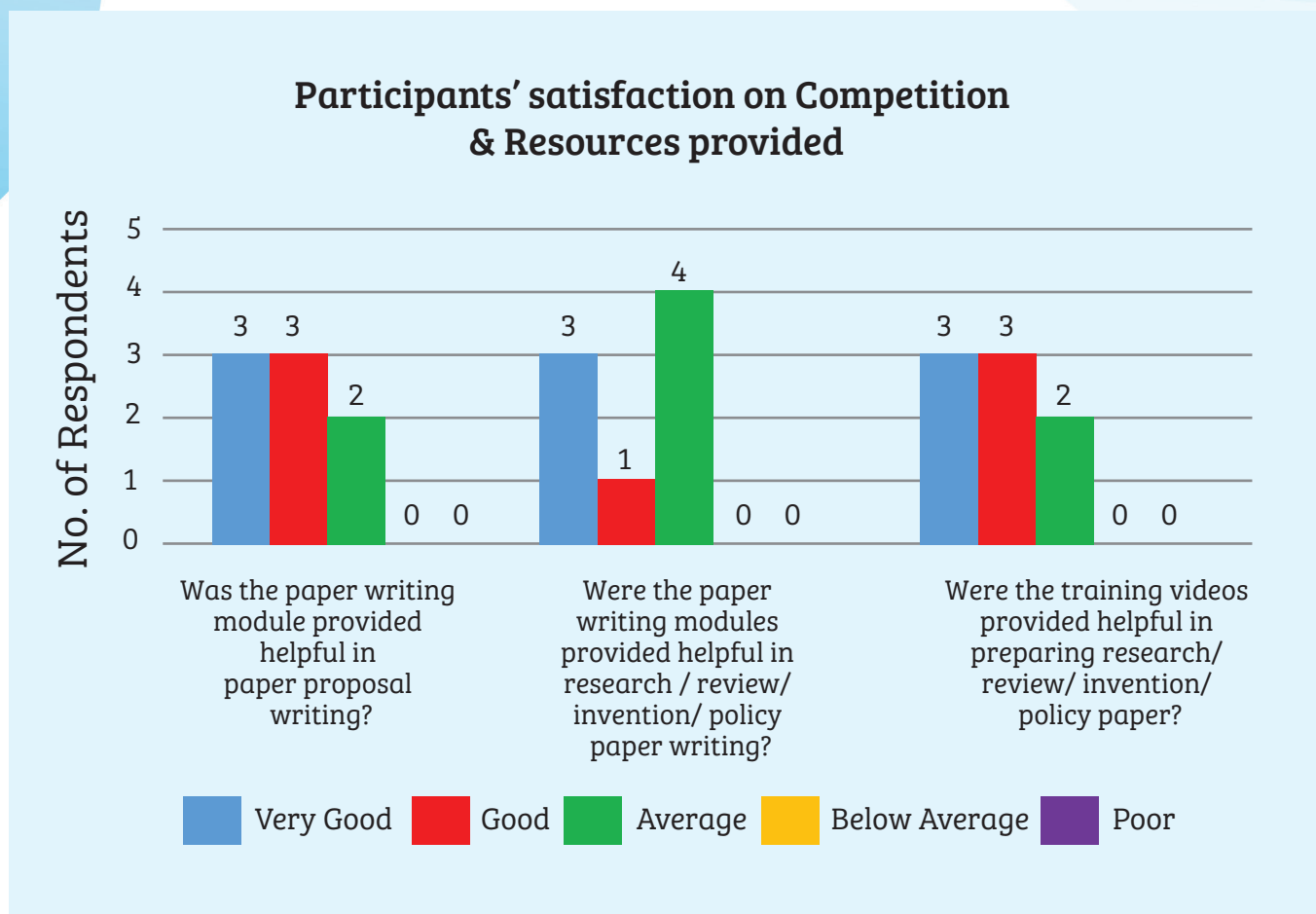


Figure 3: Participants' satisfaction on Competition & Resources provided

In Figure 3, the level of satisfaction among participants regarding the competition and the resources provided is shown. The modules dedicated to paper proposal and paper writing, as well as the training videos developed for paper writing, earned positive feedback from the participants. While there were a handful of participants who gave average ratings, the majority of respondents rated these resources as 'Good' or 'Very Good.'

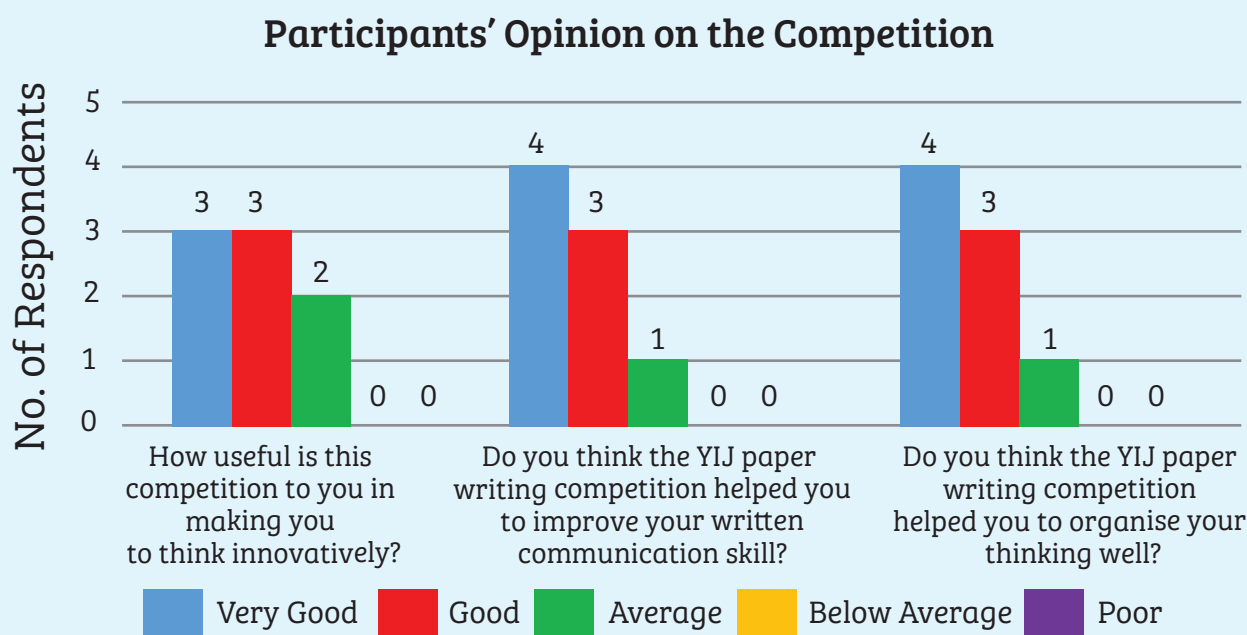


Figure 4: Participants' Opinion on the Competition

In Figure 4, we observe participants' opinion regarding the competition. A significant majority of the participants expressed that the competition had been beneficial for them. It served as a catalyst for encouraging them to think innovatively, improving their written communication skills, and helping them to organise their thoughts. Most of the participants rated 'Good' or 'Very Good' for these survey questions.

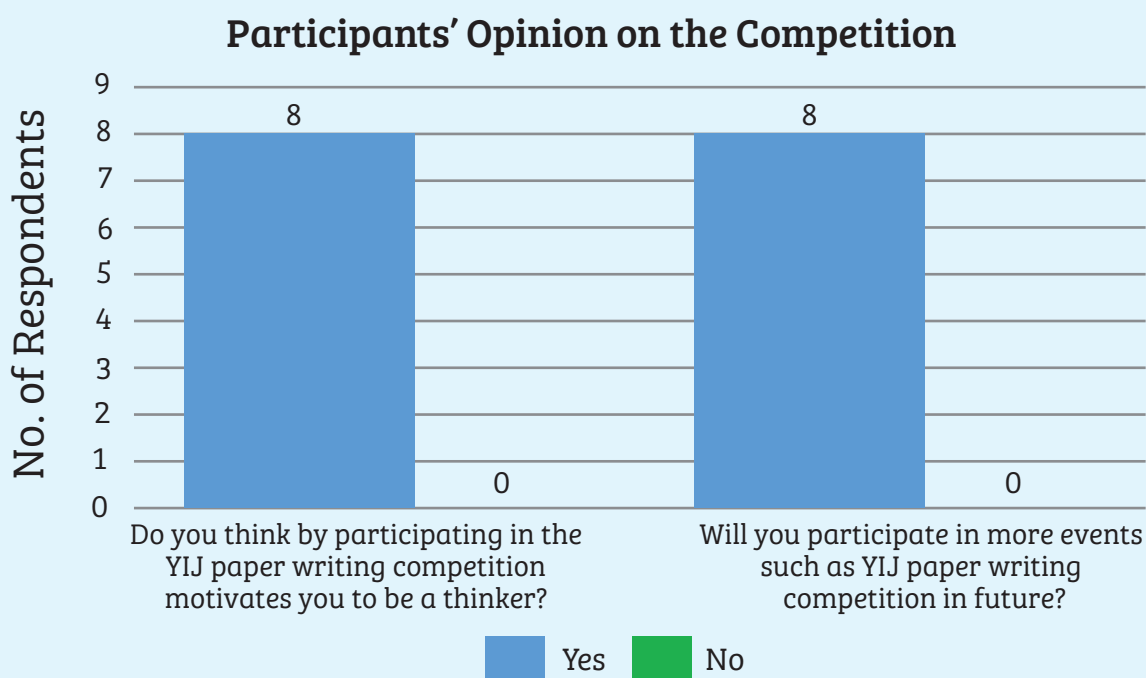


Figure 5: Participants' Opinion on the Competition

Figure 5 also shows participants' opinion about the competition. All of the participants acknowledged that taking part in the YIJ paper writing competition had inspired them to be a thinker. All of the participants also stated that they plan to participate in more events in the future, such as the YIJ paper writing competition.



### How much did the Competition help you gain the following Qualities?

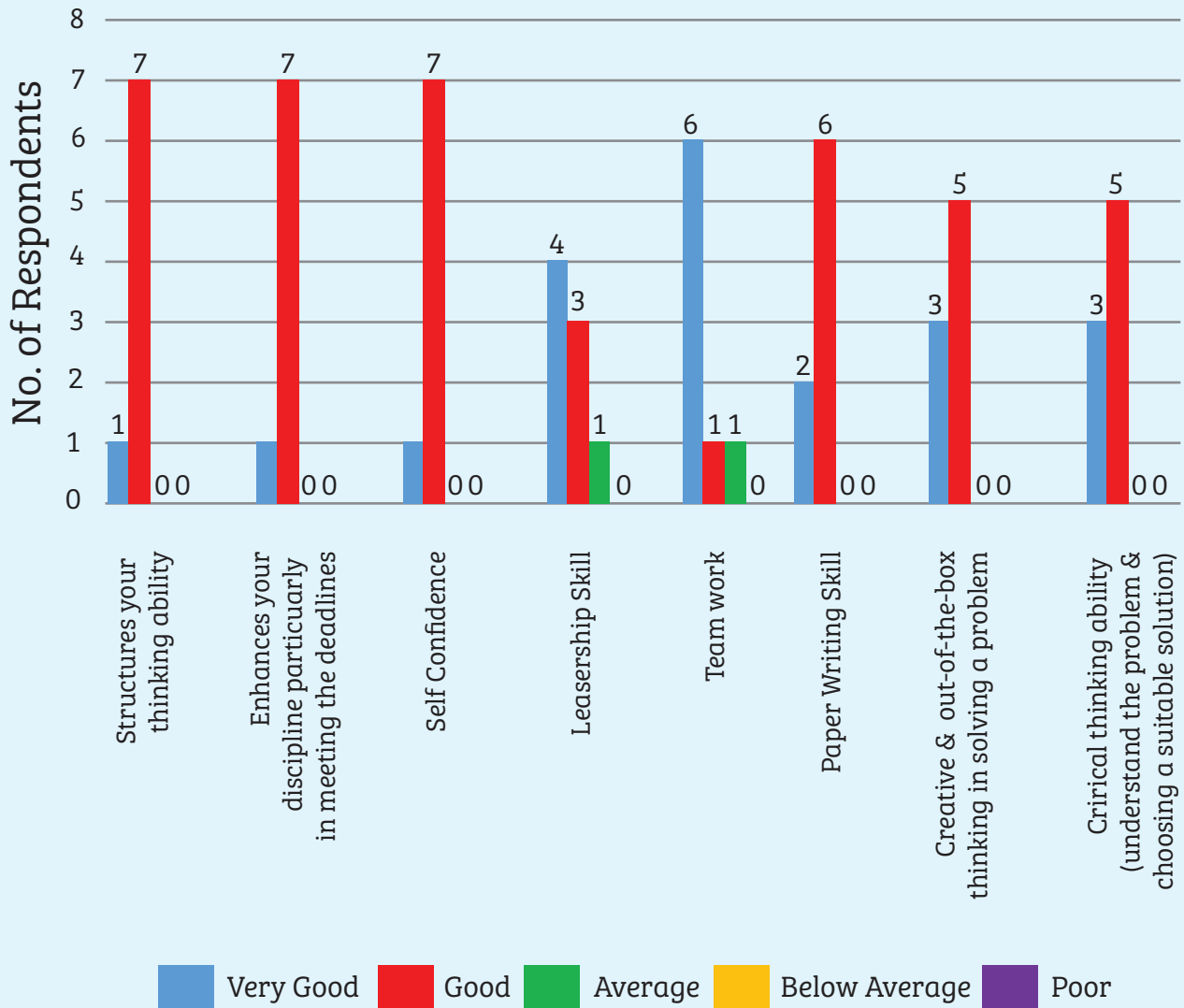


Figure 6: How much the competition had helped the participants gain the following qualities

Figure 6 explains how much the competition helped the participants gain certain qualities. Most of the participants that participated in the online survey said that after participating in the Paper Writing Competition, they have structured their thinking ability, enhanced their discipline, especially in meeting deadlines, gained teamwork, paper writing skill, critical thinking ability, are creative & out-of-the-box thinking in solving a problem, have improved their leadership skills and self-confidence.

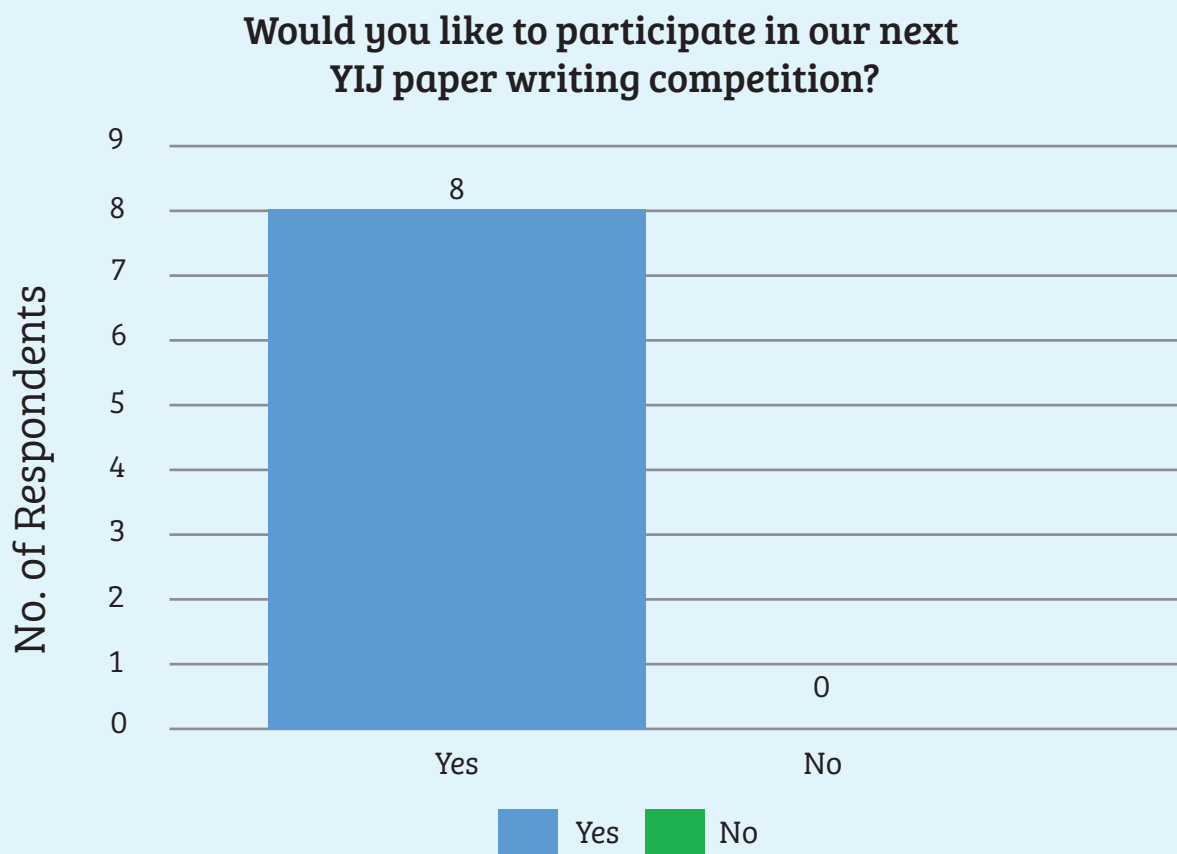


Figure 7: Next YIJ Paper Writing Competition 2023

Figure 7 illustrates the enthusiasm of students to take part in the upcoming paper writing competition. It is noteworthy that all participants have conveyed their keen interest in participating in the future YIJ paper writing competition.

We also asked the participants an open-ended question, and some of their responses (in bullet points) are as follows:

1) Do you think the whole duration (8 weeks) given for preparing the research/ review/ invention/ policy paper for competition is sufficient?

- ⚙️ Yes
- ⚙️ Average
- ⚙️ I guess it's not sufficient because we need to conduct the research and gather the empirical evidence on our inventions. Should give more time.

In conclusion, the participants learnt important skills such as critical writing by participating in this competition that would help them in the future. There is a need to encourage more people to enhance these types of skills.



ASSOCIATION OF SCIENCE, TECHNOLOGY & INNOVATION

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