



YOUNG INVENTORS JOURNAL

**INVENTION - INNOVATION
PAPER WRITING COMPETITION**

2025

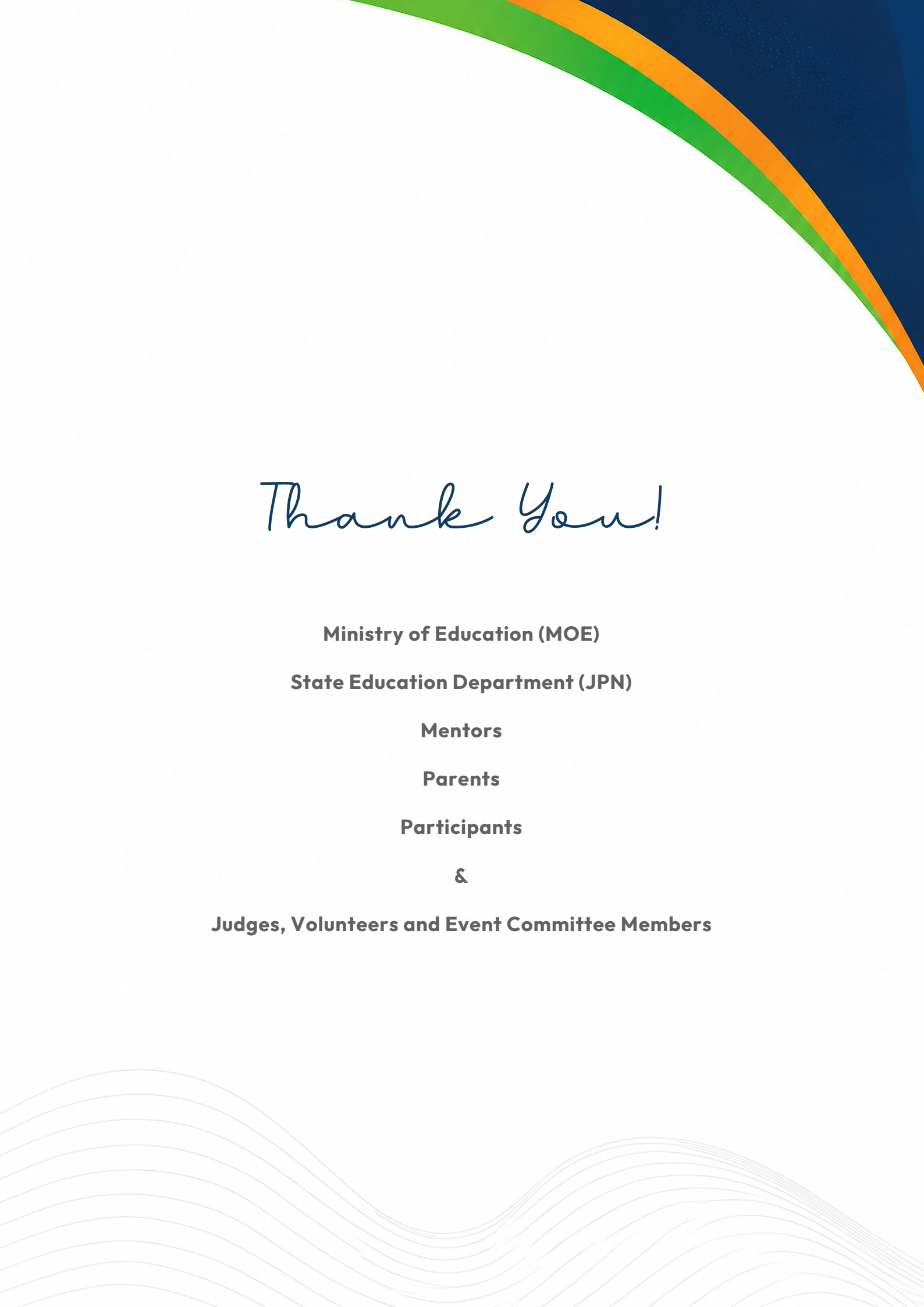


Young Inventors Journal Paper Writing Competition 2025 Report

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Thank You!

Ministry of Education (MOE)

State Education Department (JPN)

Mentors

Parents

Participants

&

Judges, Volunteers and Event Committee Members

**Working Group Committee of
Young Inventors Journal (YIJ)
Invention-Innovation Paper Writing
Competition 2025**

Project Director
Dr. Mohamed Yunus Yasin

ASTI Secretariat Representative
Ms. Caroline Maria

Chief Judge
Ts. Dr. Pratheep Sandrasaigaran



Table of Contents

Executive Summary	05
1.0 Introduction	06
1.1 Summary of YIJ Paper Writing Competition 2025	
1.2 Background	
1.3 Objectives	
2.0 Mode of Implementation	08
3.0 Training and Development	16
3.1 Training Preparations and Progress	
4.0 Research and Development	17
4.1 Analysis Summary	
5.0 YIJ Prize Giving Ceremony 2025	18
6.0 Public Relations/Media	24
7.0 Accounts Statement of YIJ Paper Writing Competition 2025	25
8.0 Judging	26
9.0 Volunteer Management	27
10.0 SWOT Analysis	28
10.1 SWOT Conclusion	
10.2 Recommendations	
11.0 Conclusion	30
Appendix A : Teams that submitted Papers	31
Appendix B : Survey Analysis	33

Executive Summary

The fifth Paper Writing Competition – Young Inventors Journal (YIJ) Invention-Innovation Paper Writing Competition 2025 was successfully organised for past participants of the Young Inventors Challenge (YIC) and Young Technopreneurs Challenge (YTC).

The competition was officially launched online on 19 February 2025. It aimed to encourage young innovators to develop their ideas further and present them in the form of structured research and innovation papers. This platform helped students strengthen their research, writing and presentation skills.

A total of 23 teams registered, and 12 teams submitted full papers for evaluation. All submitted papers were reviewed by appointed judges based on originality, clarity of ideas, innovation value, problem-solving approach and overall presentation.

After the evaluation process, the top 3 teams were shortlisted and invited to attend an online viva session, which was held on 5 July 2025. During the viva, teams presented their papers and answered questions from the judging panel. Based on their performance, the judges selected the Champion, 1st Runner-Up and 2nd Runner-Up.

The competition concluded with a Virtual Prize Giving Ceremony held on 24 July 2025 at 5.00 p.m. The event celebrated the achievements of the winners and recognised the efforts of all participating teams.

Overall, YIJ 2025 successfully provided a meaningful platform for young innovators to enhance their research writing skills, showcase their innovative ideas, and gain valuable experience in academic presentation.

1.0 Introduction

1.1 Summary of YIJ Paper Writing Competition 2025

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 organisation (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 where young people can develop and write well-researched solutions to important issues of today. YIJ aims to empower the young to share their new ideas and inventions. All papers are reviewed to meet high standards, guided by our experienced Science Advisory Board of professional researchers. Anyone can submit a paper, and there is no need to be affiliated with any academic or research organisations.

Under the Young Inventors Journal, we organised our first paper writing competition in 2019 for young people aged 13 to 18 years old. The theme of the competition was “How to Conserve and Save Water.”

After the success of the first paper writing competition, ASTI organised a second one with the theme “How to Rebuild a Better World Post Covid-19 for Education.” It was open to participants aged 18 to 40 years old. The third competition was held with the title “Reinventing a Better Future Post Covid-19 for Social Wellbeing and Mental Health.” Following this, the fourth paper writing competition was held in 2022 with the title “How to Rebuild a Better World Post Covid-19: Economics, Entrepreneurship and Livelihood.”

The fifth paper writing competition was held from 19 February 2025 until 24 July 2025. It was an invention and innovation paper competition open to past participants of the Young Technopreneurs Challenge (YTC) and the Young Inventors Challenge (YIC).



1.2 Background

Participants worked in teams of up to five members. Each team was required to describe the invention they previously submitted for the YTC or YIC competition, including its purpose, design, functionality and impact. Teams could also highlight the creativity, challenges and problem-solving processes involved in developing their innovation.

The paper had to be concise and well-researched. All explanations were required to be supported by the authors' own findings, which could include case studies with data collected from relevant stakeholders, or results from experiments, tests, surveys, or reviews related to their invention.

1.3 Objectives

The objectives of the paper writing competition are:

- To help young people identify real world problems and produce real world solutions that are relevant in their daily lives.
- To help people think more critically.
- To enhance participants' academic writing and research skills.
- To provide a platform for showcasing innovative ideas and research.
- To encourage engagement with real-world problems through scholarly discourse.
- To foster an appreciation for publishing and knowledge dissemination.
- To extend suggestions to responsible/interested parties for action.

2.0 Mode of Implementation

ASTI formed a Working Group to implement the Young Inventors Journal (YIJ) Invention-Innovation Paper Writing Competition 2025. This Working Group was responsible for the full implementation of the competition and included members from the ASTI Secretariat and the YIJ Editorial Board.

ASTI invited past YTC and YIC participants to participate in the competition. Participants competed in teams of up to five (5) members. They were required to turn their YTC or YIC inventions into academic papers. The competition was conducted fully online and the paper writing competition was carried out in English.

The YIJ Working Group Committee discussed the planning and implementation of the YIJ Paper Writing Competition.

Milestones for YIJ Paper Writing Competition 2025

Milestones of YIJ Paper Writing Competition 2025 (February 2025 – October 2025)	
Item	Time Frame
Development & Distribution of YIJ Poster	February 2025 – March 2025
Paper Writing Module Development	February 2025
Team Registration	February 2025 – March 2025
Forming YIJ Working Group Committee	February 2025
Training Video Development	February 2025
Dissemination of Training Videos & Guideline to the Participants	March 2025
Received Papers from Participants	March 2025 – May 2025
Judges Training	June 2025
Paper Marking	June 2025
Announcement of Top 3 Papers for Online Viva	June 2025
Online Viva	July 2025
Virtual Winners' Announcement	July 2025
Post-Mortem of YIJ Paper Writing Competition 2025	August 2025
Final Report Preparation	August 2025 – October 2025

The Young Inventors Journal (YIJ) Invention-Innovation Paper Writing Competition 2025 was launched on 19 February 2025. Information about the competition, including the poster and essential details, was shared widely through WhatsApp, email, the ASTI website, and ASTI's Facebook and Instagram pages. Participants were given until 19 March 2025 to complete their registration.



CALLING ALL YOUNG TECHNOPRENEURS & INVENTORS!

Are you a past participant in the Young Technopreneurs Challenge or Young Inventors Challenge? Showcase your academic writing skills and present your business plan or invention in a new way!

JOIN THE YIJ PAPER WRITING COMPETITION!

Paper Requirement >>>

Submit an academic paper based on the business plan submitted for the Young Technopreneurs Challenge or the invention submitted for Young Inventors Challenge. This would be an academic style paper which may require you to do a little more research focussing on your product and its economic & social benefit.

The Paper Entry Criteria >>>

- ✓ Past Young Technopreneurs Challenge or Young Inventors Challenge Participants
- ✓ Team of no more than 5 persons
- ✓ Number of words – Maximum 3,000 words
- ✓ Language – English
- ✓ Online training and modules will be provided

.....

Put your ideas into words and stand a chance to win!

- Champion: RM 500
- 1st Runner Up: RM 300
- 2nd Runner Up: RM 200

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 authors and may be published in our online journal, Young Inventors Journal website: <https://www.younginventorsjournal.com/> (T&C Apply).

For registration deadline and to register, please visit the link below:

<https://www.asti.org.my/yij-2025/>

Organised by:



ASTI
ASSOCIATION OF SCIENCE, TECHNOLOGY & INNOVATION

MORE INFORMATION: ☎ 014 – 712 4217 ✉ yijasti@gmail.com

A briefing video by Dr. Mohamed Yunus Yasin, the Project Director of the paper writing competition, was shared together with the competition poster. The video was also uploaded on the YIJ 2025 Paper Competition webpage. Its purpose was to explain the competition clearly to the public and participants.



The briefing video is available at https://youtu.be/1TbWvP_o8jw

ASTI received a total of 23 registrations. The registered teams were invited to attend a Question & Answer (Q&A) Session. The Q&A Session was held on 24 March 2025 at 8.30 p.m. to address questions from participants about the competition. The session was led by Ts. Dr. Pratheep Sandrasaigaran, the chief judge of the competition. He provided explanations and clarified important details to help participants better understand the requirements and process.



**YOUNG
INVENTORS
JOURNAL**

Invention-Innovation Paper Writing Competition 2025

Q&A SESSION WITH THE CHIEF JUDGE



Ts. Dr Pratheep Sandrasaigaran
Date: 24th March 2025
Time: 8.30 pm

Zoom Link: [https://us02web.zoom.us/j/87400971942?](https://us02web.zoom.us/j/87400971942?pwd=WYdGKlIbkrgHcvq2bB4tjQfuDtbZvM.I)
pwd=WYdGKlIbkrgHcvq2bB4tjQfuDtbZvM.I






Ts. Dr. Pratheep Sandrasaigaran

After the Q&A Session, ASTI shared resource materials and template guidelines with the participants to help them with the next steps of the competition.

Participants had to complete and submit their full papers by 23 May 2025. A total of 12 papers were received. Participants also had to submit an AI Declaration Form for their papers. The papers were then sent to the judges for evaluation from 4 June 2025 to 12 June 2025. The marking rubrics, along with a training video, were provided to the judges to guide them in the marking process.

After the marking and shortlisting process, the top 3 teams were contacted by email and invited to attend an online viva. The shortlisted teams were provided with detailed guidelines via email on 23 June 2025 to assist in their preparation. The online viva was held on 5 July 2025 and was conducted by a panel of 4 judges. After the viva, the judges evaluated the teams' performance and determined the Champion, 1st Runner-Up and 2nd Runner-Up.





BEAST

Blind
Element
Automatic
Sensing
Technology

00:24 0:43:52

TEAM CBT



The Researchers

Neo Ginrex Cyrus M. Tosco
Reynne H. Palustre
Nash Daniel V. Belga

LARVITOR
Team Renaissance
CAVITE SCIENCE INTEGRATED SCHOOL - IROSIS (PHILIPPINES)

TEAM RENAISSANCE

The Virtual Prize Giving Ceremony was held on 24 July 2025 at 5.00 p.m. and was streamed on YouTube to announce the Champion, 1st Runner-Up and 2nd Runner-Up.



YIJ Paper Writing Competition 2025

Join us in the Virtual Prize Giving Ceremony

-  24 July 2025 (Thursday)
-  5.00 p.m. onwards (MYT)
-  <https://shorturl.at/kDEPo>

Organiser:



ASTI
ASSOCIATION OF SCIENCE TEACHERS IN INDIA

Below are the details of registration and paper submission:

Table 1: Number of Registrations by Country

Country	Number of Registration
Philippines	12
Malaysia	7
China	3
Thailand	1
Total	23

Table 2: Number of Paper Submissions by Country

Country	Number of Paper Submission
Philippines	6
Malaysia	5
Thailand	1
Total	12

3.0 Training and Development

3.1 Training Preparations and Progress

The paper writing modules are an important resource to help participants write academic papers effectively and efficiently. They were used as a guideline for the YIJ paper writing competition. The modules were developed by members of the Young Inventors Journal Editorial Board, who are academics and professionals. In addition to the modules, a training video was developed to support participants in their paper writing. ASTI shared the modules and training video with participants via email, and they were also uploaded on the ASTI website.

The list of Modules/ Guideline developed for the paper writing competition is as follows:

- i) A Guide to Write an Invention-Innovation Paper
- ii) Guide to Use Reference Manager (EndNote & Mendeley Software)
- iii) Endnote Reference Manager
- iv) Mendeley Reference Manager
- v) Guideline to Paper Presentation

The training video developed for the paper writing competition 2025 is listed below:

- i) Training Video - A Guide to Write an Invention-Innovation Paper

We hope the modules and video helped the participants with their paper writing and will be useful for their future paper writing.

To assist the judges with paper marking, the YIJ Judging Panel developed a guideline (rubric) and a training video based on the same guideline.

4.0 Research and Development

4.1 Analysis Summary

An email with a Google survey form was sent to participants of the YIJ Paper Writing Competition. The purpose of the survey was to collect feedback to help improve the competition in the future.

A summary of the survey responses is as follows:

Participant Survey

Based on the survey findings, it is clear that participants were generally very satisfied with the competition. They considered the paper writing module, training video and Q&A session provided by the organiser to be highly useful and supportive throughout the competition. The results also show that participants gained valuable knowledge and improved important skills such as creative thinking, writing, organisation of ideas, teamwork and self-confidence. Furthermore, the competition successfully motivated them to become more active thinkers. Importantly, most students expressed strong interest in joining future paper writing competitions as well as other similar academic competitions, reflecting their positive experience and continued enthusiasm. Refer to Appendix B for detailed analysis of Participant Survey.

5.0 YIJ Prize Giving Ceremony 2025

The YIJ Paper Writing Competition 2025 Prize Giving Ceremony was held online on 24 July 2025 at 5.00 p.m. and streamed on YouTube.



Ms. Siti Nur Fathiah Kamarulazam, the moderator of the Virtual Prize Giving Ceremony, welcomed all attendees and provided a brief introduction.



Following the Moderator's introductory remarks, Dr. Mohamed Yunus Yasin, the President of ASTI, delivered his opening and welcoming address. In his speech, he said that ASTI focuses on learning and that participating in the competition is a valuable learning experience for the participants. He also explained that the YIJ Paper Writing Competition helps develop participants' critical thinking through writing and congratulated all participants for completing their papers.





Next, Ts. Dr. Pratheep Sandrasaigaran, the Chief Judge of the YIJ Paper Writing Competition 2025, delivered a speech sharing his overall feedback and observations on the participants' performance.

The virtual event continued with a multimedia presentation announcing the winners of the competition.

The following are the details of the winners:

Table 3: Details of the Champion

Team Name
TEAM SAFI (ALABEL NATIONAL SCIENCE HIGH SCHOOL)
Participant's Name
• ERNEST JOHN N. GABONADA • GIAN RAFAEL B. TACOGUE
Paper Title
KANDILA: A RAPID, NON-INVASIVE AND AUTOMATED SMARTPHONE-BASED DETECTION AND CLASSIFICATION OF MOUTH DISEASES AND ORAL CANCER USING DEEP LEARNING

The Champion received a cash prize of RM500.00 and an e-certificate.



TEAM SAFI - CHAMPION

Table 4: Details of the 1st Runner-Up

Team Name	
TEAM CBT (SMK USJ 13)	
Participant's Name	
• CHOONG JIA HUA • NELSON TING WEI CHUNG • SEAK KAI JUEN	• SIM KAI XI • SIM KAI YE
Paper Title	
BLIND ELEMENT AUTOMATIC SENSING TECHNOLOGY TOWARDS MOTORCYCLISTS' BLIND SPOT	

The 1st Runner-Up received a cash prize of RM300.00 along with an e-certificate.



Table 5: Details of the 2nd Runner-Up

Team Name
TEAM RENAISSANCE (CAVITE SCIENCE INTEGRATED SCHOOL - RSHS)
Participant's Name
• NEO GINREX CYRUS M. TOSCO • REYNNE H. PALUSTRE • NASH DANIEL V. BELGA
Paper Title
DEVELOPMENT AND UTILIZATION OF LARVITOR (LARVAE INHIBITOR) IN MITIGATING MOSQUITO PROPAGATION

The 2nd Runner-Up received a cash prize of RM200.00 and a digital certificate.

The winners announcement video is available at the following link:

<https://www.youtube.com/watch?v=F3ijBOPxmrQ>

6.0 Public Relations/Media

The Public Relations (PR) Department managed the dissemination of information between the organisers and the general public for the Young Inventors Journal Paper Writing Competition 2025. Information about the competition was shared through digital communication platform, social media and a live YouTube broadcast.

- The project poster was distributed to all stakeholders and the public.
- The ASTI Newsletter, ASTI website, and ASTI social media platforms, including Instagram, Facebook, and LinkedIn, were used to disseminate information to ASTI's various broadcast lists.

7.0 Accounts Statement of YIJ Paper Writing Competition 2025

The expenses for the Young Inventors Journal (YIJ) Paper Writing Competition 2025 are as follows:

	Amount (RM)
INCOME	
Nil (No Funding Received)	0.00
TOTAL INCOME	0.00
Less: Expenditure	
(1) Module Development and Licensing	1,000.00
(2) Poster Design and Public Relations	156.00
(3) Programme Management Fund	
Winning Prize:	
Champion (RM 500 X 1)	500.00
1st Runner Up (RM 300 X 1)	300.00
2nd Runner Up (RM 200 X 1)	200.00
(4) Operations and Project Management Fund	
Reporting	1,500.00
Total Expenditure	3,656.00
Excess of (Expenditure)/Income *	-3,656.00

* The excess of expenditure was covered by the Association of Science, Technology and Innovation (ASTI).

8.0 Judging

A total of 19 judges, comprising professionals and academics from diverse backgrounds, volunteered to participate in the YIJ Paper Writing Competition 2025. The judging process was overseen by senior judges known as the Judging Panel, whose main responsibilities included developing the judging rubrics and supervising the overall evaluation process. The panel created the rubrics for paper marking and conducted online viva sessions for the shortlisted teams. Ts. Dr. Pratheep Sandrasaigaran served as the Chief Judge, leading both the judging team and the panel. The judges thoroughly evaluated the participants' papers and conducted the online viva to ensure adherence to the competition guidelines. All decisions made by the judging team were final. The judges operated independently from the organising committee to ensure impartiality throughout the judging process.

Judges Training

A training video was developed to provide judges with a comprehensive understanding of the paper marking criteria. The video was prepared by Ts. Dr. Pratheep Sandrasaigaran, the Chief Judge of the YIJ Paper Writing Competition 2025.

Paper Marking

A total of 12 papers were submitted and accepted for review by 15 judges. Each paper was independently evaluated by four (4) judges. The paper marking process was conducted from 4 June 2025 to 12 June 2025. The submitted papers, marking rubrics and the judges' training video were sent to the judges via email. Following the evaluation, the top three (3) papers were shortlisted. On 23 June 2025, the teams of the shortlisted papers were invited via email to participate in an online viva session.

Online Viva

On 5 July 2025, an online viva was held via Zoom, conducted by four (4) judges from the judging panel to determine the Champion, 1st Runner-Up and 2nd Runner-Up. The judges were Ts. Dr. Pratheep Sandrasaigaran, Pn. Nurul Nadiah Hamidon, Dr. Lee Chin Mei and Dr. Ng Yin Kuan. The winners were announced virtually on 24 July 2025 at 5.00 p.m.

The judges were presented with digital certificates in recognition of their valuable time and contributions.

9.0 Volunteer Management

ASTI works with volunteers to run its projects every year. For YIJ Paper Writing Competition 2025, volunteers supported the programme in the following ways:

- **Working Group Members:** We had 3 Working Group Members who are professionals and industry representatives. They contributed their time and knowledge to help plan and carry out YIJ Paper Writing Competition 2025.
- **Judges:** A total of 15 individuals from various industries volunteered as judges for paper marking, while 4 judges participated in the online viva sessions where students presented their papers.

10.0 SWOT Analysis

The SWOT analysis and recommendations for future improvements to the YIJ Paper Writing Competition are as follows.



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 was well-coordinated and managed.
- Past Young Inventors Challenge (YIC) and Young Technopreneurs Challenge (YTC) participants were given a great opportunity to hone their academic writing skills.
- Participants found the modules, training video and template provided to be helpful.
- Since the competition was held online, it was designed well with minimal cost.
- Structured judging process with experienced academics and professionals, ensuring fairness and credibility.
- Fully online competition format, making it accessible to participants globally.
- Clear rubrics and training video for judges, maintaining consistency in evaluation.



Weakness:

- Participation was less encouraging.
- There is a need to improve the writing skills of participants.
- Reliance on digital platforms may exclude participants with limited internet access.
- Potential over-reliance on AI tools by some participants could affect originality of submissions.



Threat:

- To have long-term and consistent funding.
- Reading and writing culture (and skills) are decreasing in general especially due to video based social media.
- Risk of plagiarism or excessive use of AI tools may compromise the quality and originality of submissions.

 Opportunity:

- To increase the number of participants who enter the paper writing competition.
- Partner with universities, research institutions, and industry experts to provide mentorship and enhance learning opportunities.
- Make use of training materials and online videos to support future competitions and reach more students.
- Introduce guidance on responsible AI usage to enhance participants' research and digital literacy skills.

10.1 SWOT Conclusion

- Received positive reception from participants, and it had the potential to grow into national and international level.
- Strong support from ASTI, experienced judges, and useful resources make the competition a valuable learning platform.
- Providing additional guidance in academic writing can help participants improve their submissions.
- Responsible use of AI tools should be addressed to maintain originality and fairness.
- Addressing these areas can make future competitions more effective and engaging.

10.2 Recommendations

- To look for funding from a variety of sources.
- To publish selected YIJ competition papers on Young Inventors Journal website.
- More promotions/trainings/surveys are needed to encourage the writing culture among students.
- Collaborate with universities, research institutions, or industry experts to guide participants.
- Educate participants on responsible and ethical use of AI tools in paper writing.

11.0 Conclusion

The YIJ Invention-Innovation Paper Writing Competition 2025 was a successful event for ASTI. It was the first competition of its kind, specially organised for past participants of the Young Technopreneurs Challenge (YTC) and Young Inventors Challenge (YIC). A total of 23 teams registered, and 12 full papers were submitted.

The competition helped participants strengthen their critical and systematic thinking skills. It also encouraged discipline in academic writing, which is an important skill that is gradually declining among young people.

ASTI will continue to organise similar competitions in the future. In addition, more activities such as writing workshops should be conducted to encourage young people to develop and maintain strong critical reading and writing skills.

We would like to express our sincere appreciation to the judges and volunteers for their valuable support in making this competition a success.

Appendix A: **Teams that submitted Papers**



Appendix A: Teams that submitted Papers

Table 6: Teams that submitted Papers

No.	Team Name	Institute Name	State
1	The HATS	Sekolah Menengah Sains Pendang	Kedah (Malaysia)
2	Techno-Power CLB	SMJK Chung Ling Butterworth	Penang (Malaysia)
3	Team I-Detec	Alaminos City National High School	Philippines
4	Ecotaco	Alaminos City National High School	Pangasinan (Philippines)
5	QIA GenZ	SMK Kuala Perlis	Perlis (Malaysia)
6	TEMPEase	Alaminos City National High School	Philippines
7	The Sixth Sense	SMK Bintulu	Sarawak (Malaysia)
8	CBT	SMK USJ 13	Selangor (Malaysia)
9	SaFI	Alabel National Science High School	Philippines
10	Rock Of Ages	Alaminos City National High School	Philippines
11	TUS	Triam Udom Suksa School of the South	Thailand
12	Renaissance	Cavite Science Integrated School - RSHS	Philippines

Appendix B: Survey Analysis



Appendix B: Survey Analysis

Participants' Survey Analysis

A survey was conducted using Google Forms, and the link was shared with participants via email. A total of 17 participants completed the survey. The results of the survey are summarised and discussed below.

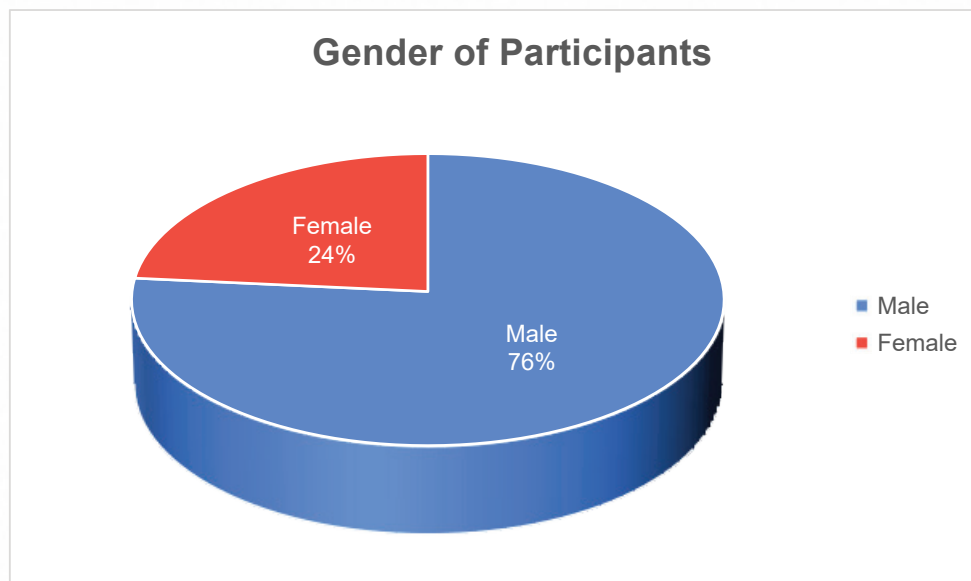


Figure 1: Gender of Participants

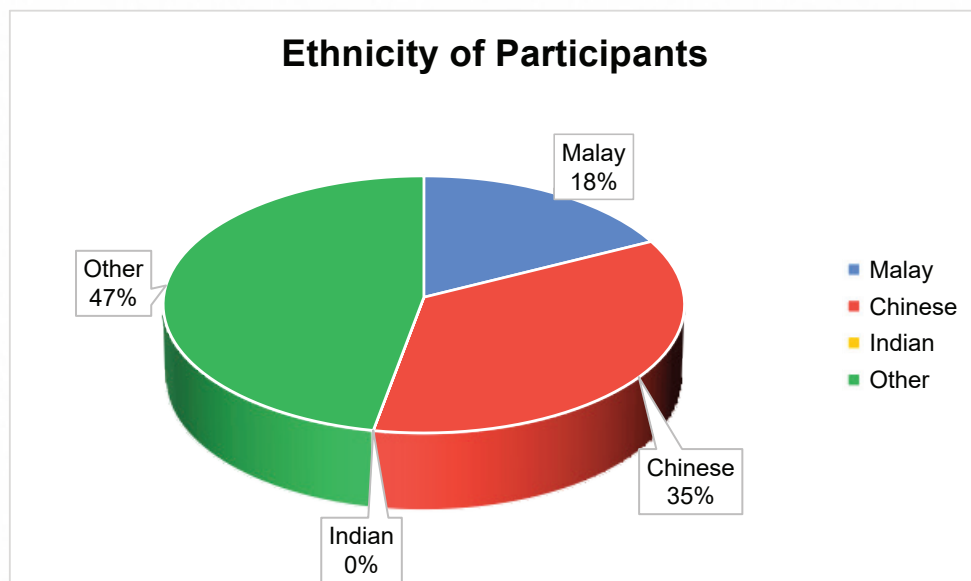


Figure 2: Ethnicity of Participants

Figure 1 shows the gender distribution of the survey participants. Most of the respondents were male, making up 76% of the total, while female participants accounted for 24%. This indicates that the survey responses were mainly represented by male participants. Figure 2 presents the ethnic background of the participants. Nearly half of the respondents (47%) were from other ethnic groups, namely Filipino and Thai. Chinese participants made up 35% of the respondents, while Malay participants accounted for 18%. Overall, the graph shows a diverse range of ethnic backgrounds among the participants, although representation differed across groups.

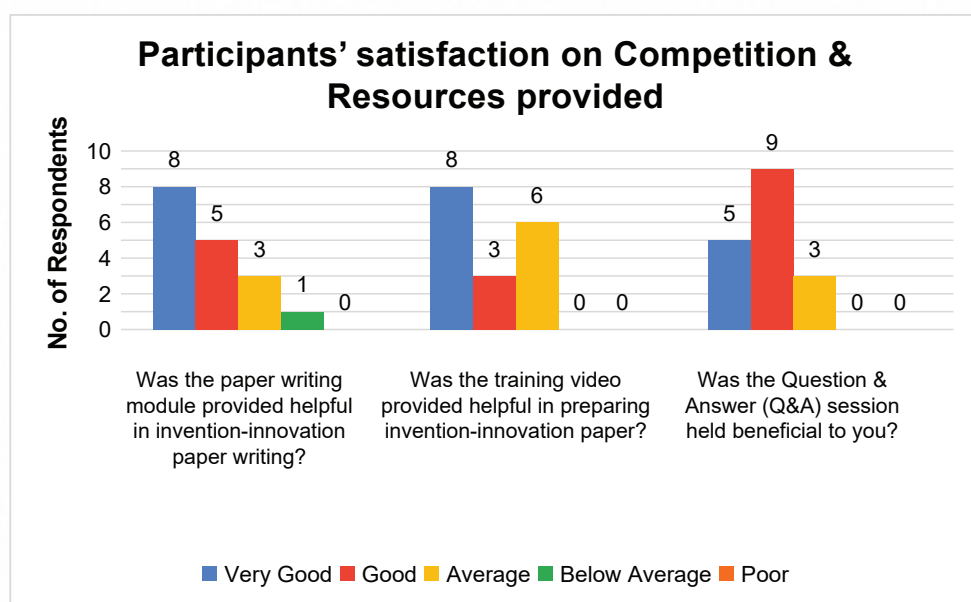


Figure 3: Participants' satisfaction on Competition & Resources provided

Figure 3 shows the level of satisfaction among participants regarding the competition and the resources provided. Participants were generally satisfied with the competition resources provided. Most respondents rated the paper writing module and training video as 'Very Good' or 'Good', indicating that these materials were helpful in preparing invention-innovation papers. The Question and Answer (Q&A) session also received positive feedback, with most participants rating it 'Good' or 'Very Good'. Notably, no 'Poor' ratings were recorded across all components, reflecting the overall effectiveness of the resources and support provided.

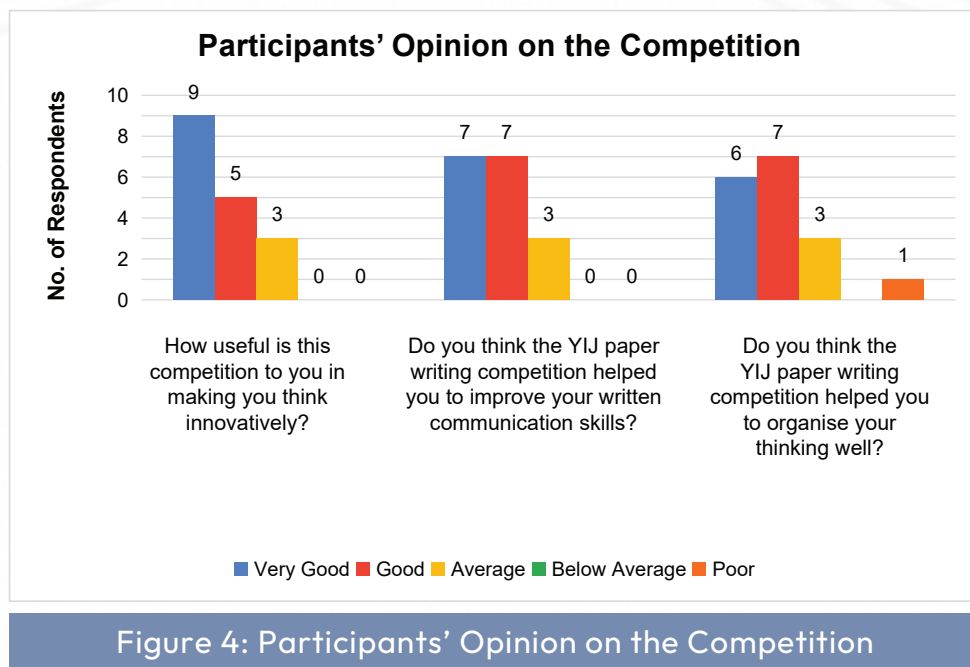


Figure 4: Participants' Opinion on the Competition

Figure 4 presents participants' opinions on the competition. Most participants had a positive view of the competition. Many respondents felt that the competition was 'Very Good' or 'Good' in helping them think more creatively, improve their writing skills and organise their ideas better. Creative thinking received the highest 'Very Good' ratings, showing strong impact in this area. Writing skills and organising thoughts were also rated highly, with only a few participants choosing 'Average'. Only one respondent gave a 'Poor' rating, and none rated any aspect as 'Below Average'. Overall, the results show that the competition was helpful and effective for most participants.

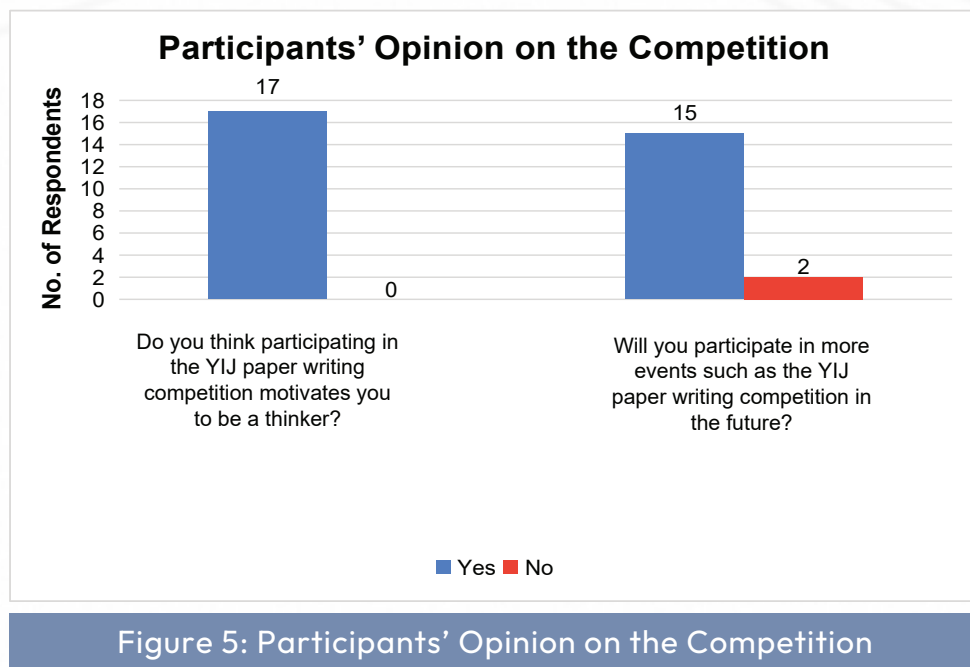


Figure 5 shows participants' responses to two questions about motivation and future participation. All respondents agreed that participating in the YIJ paper writing competition motivated them to be thinkers, with all responses marked as 'Yes' and none as 'No'. In addition, most participants indicated that they would take part in similar competitions in the future, with a large majority responding 'Yes' and only a small number responding 'No'. Overall, the results suggest that the competition was motivating and encouraged continued interest in future academic activities.

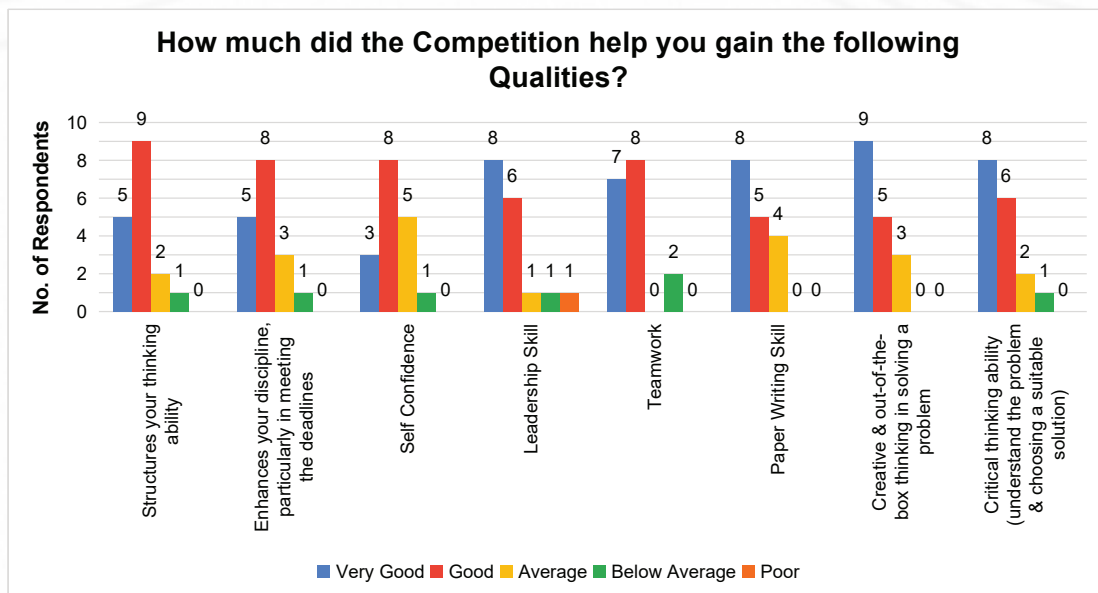


Figure 6: How much the competition had helped the participants gain the following qualities

Figure 6 shows how the competition helped participants improve different skills. Most students who answered the online survey said that after participating in the Paper Writing Competition, they improved their thinking skills, discipline in meeting deadlines, teamwork, paper writing skills, critical thinking, creativity in solving problems, leadership skills and self-confidence. Overall, the competition helped them grow both personally and academically.

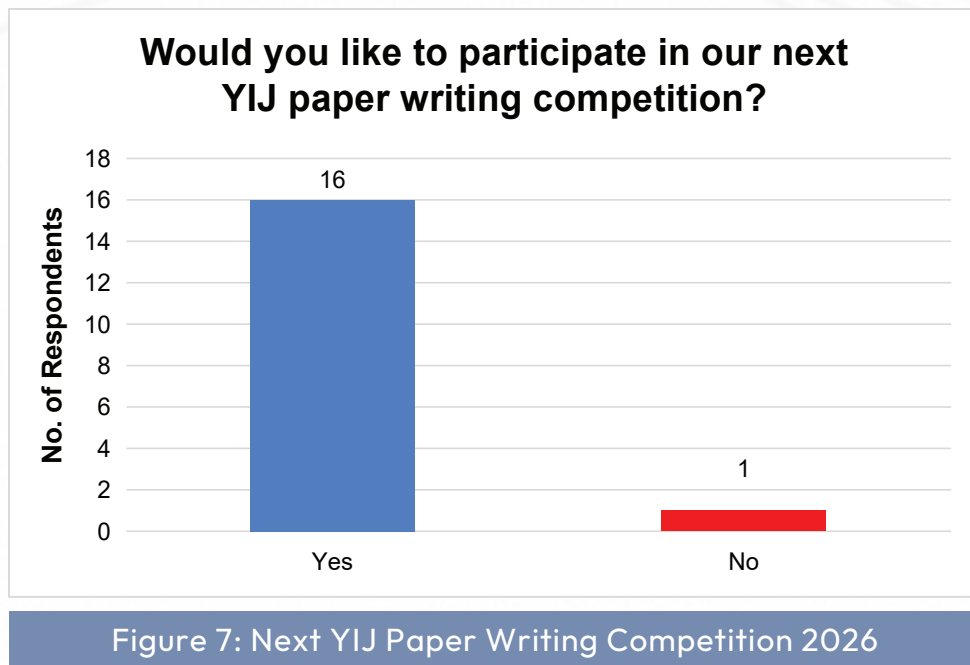


Figure 7 shows whether participants would like to join the next YIJ Paper Writing Competition. Most respondents said 'Yes', with 16 participants showing interest in joining again. Only 1 participant selected 'No'. This clearly shows that the majority of participants had a positive experience and are willing to take part in the competition again in the future.

Participants were asked an open-ended question, and their responses are summarised below in bullet points:

- 1) Do you think the whole duration (9 weeks) given for preparing the invention-innovation paper for the competition is sufficient?
 - Yes
 - As a student, I believe it is enough time to complete it just in time. My team didn't really have enough time to polish it and double check errors.

In conclusion, the participants developed important skills, especially critical writing, through their participation in this competition. These skills will be useful for them in the future. Therefore, more people should be encouraged to develop and improve these skills.



ASSOCIATION OF SCIENCE, TECHNOLOGY & INNOVATION (ASTI)
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