



I S T I C
INTERNATIONAL SCIENCE, TECHNOLOGY AND
INNOVATION CENTRE FOR SOUTH-SOUTH
COOPERATION UNDER THE AUSPICES OF UNESCO

AETDEW
THE ACADEMY OF ENGINEERING AND
TECHNOLOGY OF THE DEVELOPING WORLD



GLOBAL SOUTH KEY TEACHER'S

AI

LITERACY TRAINING PROGRAM

26–28
AUGUST 2026



Kuala Lumpur,
Malaysia



BACKGROUND

Artificial Intelligence (AI) is transforming economies, industries, and societies at an unprecedented pace, redefining the knowledge and skills required for the future workforce. As nations accelerate digital transformation, the demand for AI-literate professionals, innovators, entrepreneurs, and technology leaders continues to grow. Building this future workforce begins in schools, where learners develop the foundational competencies that prepare them for careers in science, technology, engineering, and other AI-enabled fields. Investing in AI literacy today is therefore a strategic investment in a nation's future talent pipeline, economic competitiveness, technological sovereignty, and sustainable development.

Teachers are the cornerstone of this transformation. They are not only responsible for introducing AI concepts but also for inspiring curiosity, developing computational thinking, fostering creativity, and nurturing problem-solving skills among young learners. Equipping educators with AI knowledge, effective pedagogical approaches, and practical teaching strategies is essential to preparing students for higher education, emerging professions, and lifelong learning in an increasingly AI-driven world. Early exposure to AI concepts also encourages greater interest in STEM disciplines, creating a continuous pipeline of learners who are prepared to pursue advanced studies and careers in AI and related technologies.

For many countries in the Global South, AI presents both tremendous opportunities and significant challenges. While AI can accelerate economic growth, improve public services, and drive innovation, disparities in digital infrastructure, technological capacity, and AI literacy continue to limit the development of a skilled workforce. Strengthening teacher capacity is therefore a critical first step in ensuring an inclusive and sustainable pipeline of future AI talent, enabling all countries to participate meaningfully in the global digital economy.

In line with the **UNESCO Beijing Consensus on Artificial Intelligence and Education**, AI should be harnessed to enhance teaching and learning while promoting equity, inclusion, and lifelong learning. Developing AI-literate teachers directly support the Sustainable Development Goals (SDGs) by preparing learners to become responsible digital citizens, future innovators, and contributors to knowledge-based economies.

Recognising this strategic need, the **Global South Key Teacher's AI Literacy Training Program** has been crafted in 2025 to strengthen the AI literacy competencies of key teachers across Global South. Jointly organised by **ISTIC**, the **Academy of Engineering and Technology of the Development World (AETDEW)**, and **Sri Bestari Private School Kuala Lumpur**, the Program is now the flagship programme of the **ISTIC/AETDEW/SBPS Consortium of AI Education for the Global South**. The **Program** equips educators with a strong foundation in AI concepts, AI pedagogy, classroom applications, machine learning, and emerging technologies, including large language models. This training workshop is the third training workshop for teachers in the **Program**, following the training workshop in Sri Bestari Private School, June 2025 and the training workshop in Chengdu, May 2026

Through expert lectures, interactive discussions, hands-on workshops, and collaborative learning, participants will develop the knowledge, confidence, and practical skills required to integrate AI literacy into school curricula. More importantly, they will become catalysts for cultivating future generations of AI-ready learners, ensuring a sustainable pipeline of skilled talent capable of driving innovation, economic resilience, and inclusive growth across the Global South.

By investing in teachers today, the **Program** invests in the future workforce of tomorrow—empowering educators to shape AI-literate societies and preparing young people with the competencies needed to thrive in an increasingly intelligent, innovative, and technology-driven world.

OBJECTIVES

The primary objective of AI Education is to empower students with a holistic understanding of AI, its principles, and its applications. This initiative aims to:

1. Provide primary and secondary school teachers with a comprehensive understanding of AI core technologies.
2. Enhance teachers' knowledge and practical teaching skills in AI literacy to support the integration of AI into daily teaching.
3. Learn from China's successful AI education model, including training methods for AI-literate schoolteachers.
4. Equip teachers with the necessary teaching tools and methodologies for AI education.
5. Foster regional collaboration by engaging teachers from Malaysia in AI education initiatives.

EXPECTED OUTCOMES

1. Teachers will gain a solid understanding of AI core technologies and how to integrate them into their teaching.
2. Teachers will be able to design and implement AI-based teaching plans that are innovative and effective.
3. A long-term AI education learning community will be established to continuously support teachers' professional development.

DATE & VENUE

Duration: 2.5 days

Date: 26 – 28 August 2026 (Wednesday - Friday)

Venue: Sri Bestari Private School Kuala Lumpur, Bandar Sri Damansara

PARTICIPATION

About 50 participants are expected to take part in this programme. To encourage broader international participation and strengthen South-South collaboration, 15 seats have been specially allocated for participants from Global South countries, while 35 seats are allocated for local participants from Malaysia. The participation of international delegates will provide valuable opportunities for the exchange of knowledge, ideas, and experiences in AI education, while also fostering networking, regional cooperation, and future collaborative initiatives among participating institutions and countries.

LOGISTICS AND SPONSORSHIP

The organizers will provide local hospitality, including accommodation (except participants from the Klang Valley).

International participants are expected to secure their own travel funding from their respective organizations to cover international travel expenses to Kuala Lumpur, Malaysia.

REGISTRATION FEE

No registration fee is required for teachers from public schools in Malaysia and for foreign teachers.

For teachers from private schools and international schools in Malaysia, the registration fee is RM500.00 per person.

VISA APPLICATION

Foreign participants who require a visa to enter Malaysia must obtain their visa before departure. To facilitate the application process, participants will need to present an official invitation letter from the organizer when applying at the Malaysian Embassy, High Commission, or Visa Center in their respective countries. The organizer will promptly issue invitation letters to all selected international participants to support their visa applications and travel arrangements. Other foreign participants who do not require a visa may enter Malaysia without prior visa application. However, they should ensure their passports meet Malaysia's entry requirements.

CRITERIA OF PARTICIPANTS

The participants should preferably possess the following criteria:

- Be practicing schoolteachers with a minimum of 1–2 years of teaching experience, preferably in STEM subjects.
- Demonstrate a strong interest in AI education and its implementation in classrooms through a statement of purpose.
- Possess basic technological competence, including familiarity with digital tools and platforms.
- Have institutional endorsement or support from their school administration.
- Have good command of English, both verbally and in writing.
- Commit to applying workshop learnings in their teaching practices and sharing knowledge with peers.
- In good health.

MODES OF DELIVERY

The training workshop will be conducted in English and will incorporate a blend of interactive learning methods, including:

- Lectures: Expert-led sessions offering in-depth insights into key topics.
- Demonstrations: Hands-on showcases of methodologies and technologies in AI education.
- Discussions & Presentations: Engaging discussions and participant presentations to foster knowledge sharing and collaboration.

Upon successful completion of the workshop and presentations, participants will receive an attendance certificate issued by the organizers.

To fully engage in the sessions, each participant is required to bring a laptop or tablet for study, presentation preparation, and communication throughout the course.

APPLICATION

Interested applicants are encouraged to apply online through the following link:

<https://forms.gle/fLLEsQsxdzLhLxaB8>

CONTACT INFORMATION

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TENTATIVE AGENDA

DAY 1 – 26 AUGUST 2026 (WEDNESDAY)		
08:30 – 09:00	Registration	
09:00 – 10:00	Opening Ceremony	1. Welcome Remarks by SBPSKL Principal; Dr. Steven Baptist 2. Welcome Remarks by AETDEW President; Ts. Choo Kok Beng 3. Welcome Remarks by ISTIC Chair of Governing Board; Prof ChM. Dr Mohd Basyaruddin Abdul Rahman 4. MOU Signing Ceremony 5. Student Performance 6. Opening Address by Representative from MOE (TBC) 7. Group Photo
10:00 – 10:30	Tea Break	
10:30 – 11:00	Keynote 1: Background of the AI Era and AI Education for the Global South from China's perspective <i>Prof Han Liqun</i>	
11:00 – 11:30	Keynote 2: Development of K-12 AI Education and Pedagogy; UTAR Approach <i>Assoc. Prof. Dr. Kwan Ban Hoe; UTAR</i>	
11:30 - 12:00	Keynote 3: On-Line AI Teacher Training Program for Pakistan and ASEAN <i>Dr Athar Osama, Pakistan</i>	
12:00 - 12.30	Keynote 4: Development of Standardised AI and STEM Curriculum in SBPS <i>Dr Steven Baptist, SBPS</i>	
12:30 – 14:00	Lunch	
14:00 – 14:30	Introduction to Training Content and Ice Breaking <i>Tengku Sharizad Tengku Dahlan, ISTIC</i>	
14:30 – 15:30	Machine Perception Module <i>China AI Expert (TBC)</i>	Core Concept Explanation (Various sensors and their uses). Integration of Teaching Tools (sensor kit demonstration, robot perception cases). Sample Lesson Demonstration ("Application of Sensors").
15:30 – 15:45	Tea Break	

15:45 – 17:00	Pattern Recognition Module <i>Dr Morigenbateer, China</i>	Core Concept Explanation (feature and pattern recognition). Integration of Teaching Tools (Scratch programming environment). Sample Lesson Demonstration ("Garbage Classification Decision").
17:00 - 17:30	Group Discussion and Sharing	Teachers discuss in groups, share their understanding of concepts and instructional design
17:30	End of Day 1	

DAY 2 – 27 AUGUST 2026 (THURSDAY)		
09:00 – 10:30	Forum on AI Education Topic: Preparing K-12 Students for the AI Era: Aligning Teacher AI Literacy with Tertiary Education Expectations Moderator: Professor Dr. Tan Chee Fei (TBC) Speakers : 1. Professor Dr. Lai Weng Kin, TARUMT 2. Dr. Norshaliza Binti Kamaruddin, Universiti Teknologi Malaysia 3. Professor Han Liqun, China 4. Dr Athar Osama, Pakistan	
10:30 – 10:45	Tea Break	
10:45 - 11:30	Practical Deployment of an AI Literacy Curriculum in Schools - Introduction to Yijin Teaching Platform Speakers: 1. Zeng Wei (Chengdu, China) 2. Teacher Dr. Helen Chong 3. Teacher Chew Kah Wui 4. Teacher Nurul Fathiah Rushadi 5. Teacher Sharif Luqman Hakim SH Shuib	
11:30 – 12:30	Hands-on Coding and Robotics Azim Noor, ISTIC	
12:30 – 14:00	LUNCH	
14:00 – 15:30	Machine Learning Module <i>Dr Shiyan, China</i>	Core Concept Explanation (neural networks, deep learning, etc.).
15:30 – 17:00	SBPSKL AI Workshop; Module 4; Part 1 Topic: AI Thinking Process Purpose: To learn prediction and confidence in AI and AI Hardware setup <i>TBC</i>	
17:00	Tea Break and End of Day 2	

DAY 3 – 28 AUGUST 2026 (FRIDAY)		
09:00 - 10:30	SBPSKL AI Workshop; Module 4; Part 2 Topic: Build Your Own AI Game Exercise: Paper, Rock, Scissor Game Logic and Coding <i>TBC</i>	
10:30 - 11:00	Tea Break	
11:00 – 11:30	Closing Address by AETDEW Fellow Dr Goh Peng Ooi	
11:30 – 12:00		Speech by AETDEW Past President; Academician Dato' Ir. Lee Yee Cheong Closing of Training Workshop by Representatives from MOE Certificate and Award Presentation by Henry Wen
12:00	Lunch & End of Workshop	