SEAMEO

recsam

Ai labs
AI Learning Center

WORKSHOP ON

ARTIFICIAL INTELLIGENCE (AI) LITERACY

27 & 28 FEBRUARY 2025
SEAMEO RECSAM, PENANG

Target Participants:

Teachers / Educators

Organised by:

SEAMEO RECSAM, Penang

INTRODUCTION

The proliferation of Artificial Intelligence (AI) in Southeast Asia has emerged as a defining influence, poised to contribute an estimated USD 1 trillion to the region's GDP by 2030. This underscores the crucial role of AI literacy in ensuring optimal workforce readiness. As the digital landscape evolves, there is an urgent need to equip the workforce to effectively navigate the challenges and opportunities presented by this new era of AI. Educators and teachers play a pivotal role in this, envisioning the future of education and promptly addressing the new challenges arising from AI's recent and rapid proliferation. This training is a proactive step towards preparing for the AI-reliant future.

This initiative is a collaborative effort between SEAMEO RECSAM and AI Labs, designed to empower teachers and educators to prepare students for an AI-reliant future. In light of the increasing dependence on AI-driven technologies, educators have assumed a crucial role in fostering the critical thinking and autonomy necessary for navigating these new technologies. This collaborative initiative aims to bolster AI proficiency within the SEAMEO region. It encompasses a professional development program tailored for teachers across SEAMEO member countries, equipping them with practical AI skills to enhance teaching and learning.

RATIONALE

In the rapidly advancing digital era, it has become increasingly essential to incorporate the cutting-edge technology of Artificial Intelligence (AI) into education. The upcoming program aims to immerse participants in the AI Labs Toolkit under the guidance of distinguished AI experts from AI Labs and RECSAM. This comprehensive approach will equip the participants with the knowledge and skills to navigate and leverage AI in the educational landscape. Specifically, this workshop aims to:

- Bridge the digital skills gap by providing teachers with AI literacy understanding, better-preparing students for future careers;
- Integrate AI into education to enhance teaching quality by automating tasks and providing personalised teaching and learning experiences;
- Provide industrial insights, bridging the gap between education and industrial sectors, enhancing their understanding of AI applications;
- Foster cross-border knowledge sharing among educators from the SEAMEO member countries, creating a cohesive AI-driven educational ecosystem;
- Equip students with AI skills and prepare them for the evolving job market reliant on AI technologies.

LEARNING OUTCOMES

Implementing AI in education empowers participation and fosters dynamic learning. Key outcomes include:

1. Continuous professional development (CPD) for teachers.
2. Certificate of Completion from SEAMEO RECSAM and AI Labs.
3. Programme assessment / evaluation and feedback.
4. Networking with peers and industry partners.

COURSE DESCRIPTION

Lesson	Topics	Learning Outcome	Activities / Hands-on / Games
1	Introduction to AI and AI Powered Automation	Get inspired by witnessing what can AI do for you!	• Game 1: AI Problem Solving with AI App • Game 2: Generate Moving Portrait from Image • Game 3: AI Realistic Scenery Painting
2	What is AI?	• AI concepts basics • Relationship between AI, Machine Learning (ML) and Deep Learning (DL)?	• Game 4: Spot the AI • Game 5: How to Make the Non-AI, AI
3	AI History & Latest Development	• AI history • Future prospects • Life impact and jobs	Game 6: Explore AI Trends with Computer Vision and Natural Language Processing
4	How Does AI Work? Part 1: Data and Features	• Basic AI operation • Core AI components • Data and features?	• Game 7: Can You Predict That? • Game 8: Play with Tigers
5	How Does AI Work? Part 2: Machine Learning Algorithm	• ML algorithm basics • AI learning with data • Popular ML Algorithm	Game 9: Let's Predict Salmon's Price
6	What it takes to implement an AI Project?	Acquire the AI mindset for global problem-solving	Game 10: Can I Eat It?
7	How to plan an AI Project? Case Study: AI-Powered Tomato Sorter	Understand the complete AI process to solve problems in hand via a case study	• Game 11: Automated Calorie Detector Demo: Install Sushi Calorie Mobile App
8	How to use AI for Enhanced Learning, Problem Solving and Creativity Boosting?	Learn to use AI tools for productivity and problem solving	• Game 12: Dissect a Chabot Sapp Activity 1: Problem Solving with AI Tools

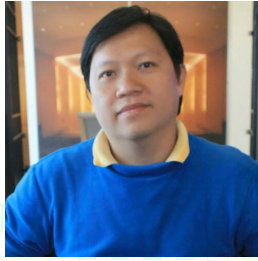| 9	AI Ethics and Responsible AI	Understand the ethical implications and recognize the importance of responsible AI development	Discussion on the biasness, privacy, fairness, transparency, accountability and safety in AI development.
10	Hands-on Assignment (Design your own AI project to Solve Problem)	Learn and apply the AI mindsets to solve your own problem	Activity 2: Group AI Project Design for Problem Solving
11	Sharing of AI Project Plans Summary and Closing	• Presentations • Questions & Answer (Q&A) • Certificate Presentation Ceremony	

TENTATIVE SCHEDULE OF ACTIVITIES

DAY 1 (27/02/2025)

TIME	ITEM
8.00 - 8.30 A.M.	**REGISTRATION**
8:30 - 9:30 A.M.	Introduction to AI and AI Powered Automation
9:30 - 10:30 A.M.	What is AI?
10:30 - 11:00 A.M.	**TEA BREAK**
11:00 A.M. - 12:00 P.M.	AI History & Latest Development
12:00 - 1:00 P.M.	How Does AI Work? Part 1: Data and Features
1:00 - 2:30 P.M.	**LUNCH**
2:30 - 4:30 P.M.	How Does AI Work? Part 2: Machine Learning Algorithm
4.30 P.M.	**TEA BREAK**

DAY 2 (28/02/2025)

TIME	ITEM
8:30 - 9:30 A.M.	What it takes to implement an AI Project?
9:30 - 10:30 A.M.	How to plan an AI Project? Case Study: AI-Powered Tomato Sorter
10:30 - 11:00 A.M.	**TEA BREAK**
11:00 A.M. - 12:00 P.M.	How to use AI for Enhanced Learning, Problem Solving and Creativity Boosting? AI Ethics and Responsible AI
12:00 - 1:00 P.M.	Hands-on Assignment (Design your own AI project to Solve Problem)
1:00 - 2:30 P.M.	**LUNCH**
2.30 - 4.30 P.M.	Sharing of AI Project Plans Summary and Closing
4.30 PM	**TEA BREAK**

WORKSHOP FACILITATOR

Ir. Dr. Lim Meng Hee is an accomplished Associate Professor at Universiti Teknologi Malaysia (UTM), specializing in the engineering applications of AI, intelligent maintenance, and vibration engineering. With a Ph.D. in Mechanical Engineering and over two decades of experience in both academia and industry, Dr. Lim has significantly advanced research and consultancy in engineering application of AI, noise and vibration engineering. Ir. Dr. Lim Meng Hee is an accomplished Associate Professor at Universiti Teknologi Malaysia (UTM), specializing in the engineering applications of AI, intelligent maintenance, and vibration engineering. With a Ph.D. in Mechanical Engineering and over two decades of experience in both academia and industry, Dr. Lim has significantly advanced research and consultancy in engineering application of AI, noise and vibration engineering. He has secured substantial research grants and authored over 100 papers in prestigious journals. Dr. Lim's extensive industrial experience includes leading and consulting on major projects such as MRT Line 1 and 2, Petronas refineries in Kerteh and Pengerang, the Genting 21st Century Fox Theme Park, and E&E plants in Penang and Kulim, including Osram, Agilent, Bosch, and Micron. His expertise encompasses various noise and vibration studies for high-profile clients across the automotive, power generation, and construction industries.

REGISTRATION FEE

Items	Without Accommodation
Course Fee (Including AI Textbook and Workbook)	RM 330 USD 80

Accommodation at RECSAM International House

For booking accommodation at SEAMEO RECSAM International House, you may click the following link for further information:

http://www.recsam.edu.my/sub_InternationalHouse/

Food

Morning tea, afternoon tea and lunch will be provided by SEAMEO RECSAM during the workshop.

Registration, Payment & Closing Date

To enroll, please register online by **10 February 2025** via https://forms.gle/2B1NQgzDLxAcJTBD6 or scan the following QR code.

SCAN HERE

Upload your payment slip for confirmation of registration.

Payment (Internet Banking)
Pay to: SEAMEO RECSAM
Bank: MAYBANK GELUGOR BRANCH, PENANG
Account Number: 5571 5700 0647

FOR ENQUIRIES

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