



ARTIFICIAL INTELLIGENCE (AI) FOR LEARNING DESIGN: INTEGRATING AI TO ENHANCE MEDICAL & HEALTHCARE EDUCATION WORKSHOP

**21 JUNE 2025 | 8 A.M. - 5 P.M.
GRAND HALL, UNIVERSITY OF CYBERJAYA**

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WELCOME NOTE BY THE DEAN



Welcome to the workshop on “Artificial Intelligence for Learning Design: Integrating AI to Enhance Medical & Healthcare Education.”

We are delighted to have such a diverse group of educators, researchers, and healthcare professionals joining us today. This workshop provides an exciting opportunity to explore how artificial intelligence can transform the landscape of medical and healthcare education, enhancing both teaching methods and learning outcomes.

Through collaborative discussions, insightful presentations, and hands-on sessions, we hope to inspire new ideas and foster innovative approaches to integrating AI into our educational practices. Together, let's explore how AI can support personalized learning, improve training experiences, and ultimately better equip our students for the challenges of modern healthcare.

Thank you for your participation, and we look forward to a productive and enriching experience.

Professor. Dr. Premnanth S K Nagalingam

Dean, Faculty of Medicine
University of Cyberjaya

WORKSHOP OVERVIEW

The AI for Learning Design (AI LD)

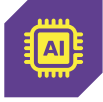
Workshop is a practical, interactive session that aims to equip medical educators with the necessary knowledge and skills to integrate artificial intelligence (AI) into instructional design. Participants will explore how AI can be applied to content creation, assessment strategies, and adaptive learning in medical and healthcare education.

Through hands-on engagement, participants will learn to leverage AI tools to develop effective, data-driven, and personalised learning experiences for students, improving both teaching efficiency and educational outcomes.



WORKSHOP LEARNING OUTCOME

By the end of this workshop, participants will be able to:



Critically Evaluate AI-Enhanced Pedagogies

Participants will examine the theoretical and empirical foundations of AI-driven instructional methods and determine how well these techniques align with evidence-based practices in healthcare education.



Synthesise Instructional Strategies with AI Tools

Through hands-on experimentation, participants will integrate generative AI platforms, chatbots, and adaptive learning technologies into multifaceted lesson designs that address diverse learner needs.



Design and Develop Interactive, Data-Informed Modules

Participants will construct online learning modules, using platforms such as Rise 360 and NotebookLM. They will then use analytics to refine content structure, learner engagement, and assessment protocols.



Assess Ethical, Legal, and Accessibility Considerations

Attendees will appraise best practices for data privacy, user consent, and inclusivity when deploying AI-based solutions and formulate strategies to uphold ethical and legal standards in healthcare education.



Reflect on and Iterate Teaching Practice

Drawing on peer reviews and continuous feedback loops, participants will critically reflect on the quality and outcomes of AI-integrated lessons, proposing evidence-based improvements and future implementation plans.

MEET THE TRAINER

Dr Vaikunthan Rajaratnam *FRCS, MIDT, MBA, PhD (Education)* is a practising hand surgeon, medical educator, and AI applications specialist with over 40 years of experience in clinical practice, instructional design, and academic leadership. He is an Adjunct Professor and UNESCO Chair partner at APUIT and an Honorary Professor at RUMC Penang and UKM Malaysia, focusing on AI in education. As a global trainer, he has conducted numerous workshops on AI integration in medical education, learning design, and research. His educational expertise spans competency-based learning, digital transformation, and ethical AI applications, empowering educators to enhance teaching strategies with cutting-edge technology.



TENTATIVE

Time	Session	Details
8.00 – 8.30 AM	Registration	Arrival and registration of participants
8.30 – 9.00 AM	Welcoming Speech	Welcoming speech by the Dean of Faculty of Medicine, University of Cyberjaya
9.00 – 9.30 AM	Foundations of AI in Learning Design	Overview of instructional design models and neuroscience principles in healthcare education. Introduction to Universal Design for Learning (UDL). Setting learning outcomes for AI-assisted instruction.
9.30 – 10.30 AM	Introduction to Generative AI Tools	Live demonstration of AI platforms for content creation. Best practices for prompt engineering and response validation.
10.30 – 11.00 AM	Tea Break & Networking	Refreshments and informal discussions with peers.
11.00 AM – 12.30 PM	AI-Powered Learning Blueprints & Content Development	Use ChatGPT and similar tools to generate learning outcomes, pedagogy, content, and assessment with rubrics and interactive and multimedia teaching materials. Group activity: Designing AI-powered lesson components.
12.30 – 1.30 PM	Lunch Break	
1.30 – 2.00 PM	Creating & Integrating Chatbots	Introduction to chatbot frameworks. Activity: Build a simple chatbot for healthcare education (e.g., intelligent tutoring system, student support).
2.00 – 2.45 PM	Hands-on: Exploring NotebookLM	Guided session on NotebookLM features. Exercise: Set up an AI-driven knowledge base as a personalised teaching resource.
2.45 – 3.00 PM	Q&A and Assembling learning objects for asynchronous learning	Labelling learning assets developed and planning sequencing for online module.
3.00 – 3.30 PM	Tea Break & Informal Discussions	Light refreshments and networking.
3.30 – 4.30 PM	Hands-on: Online Module Development with Rise 360	Educators will structure digital course modules using Rise 360. Focus on accessibility features, robust assessment strategies, and interactive elements to enhance learner engagement.
4.30 – 5.00 PM	Iterative Evaluation and Peer Review	Participants will share their work, receive peer feedback, and discuss how to apply workshop learnings in their home institutions. Topics include ongoing evaluation methods, rubric design, and qualitative feedback strategies.
5.00 PM	Wrap-Up & Next Steps	Final reflections on how AI-supported instructional design can enhance healthcare education in diverse settings. Resources for further learning and networking opportunities will be shared.

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