INSPIRATION SESSION: AI LITERACY IN THE CLASSROOM

WEEK OF EDUCATION
THE HEARTBEAT
OF LEARNING

19-22 MAY, UT CAMPUS

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OF LEARNING

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TODAY'S INSPIRATION SESSION

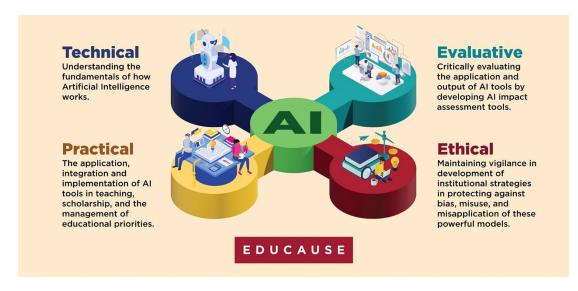
Reflect on the role of Al literacy in our education

What AI literacy *can* look like in the classroom Examples and resources
Share your experiences

Possible next steps

WHAT IS 'AI LITERACY'?

The *knowledge*, *skills*, and *attitudes* that enable people to use, create, and evaluate AI technologies <u>effectively</u> and <u>responsibly</u>.







WHY AI LITERACY?

Al offers benefits, but students may use it **ineffectively** without guidance

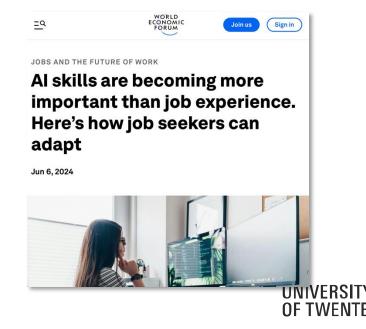
Promoting academic integrity

Pervasiveness in human life





"We are not sure of what is permitted and what is not" BMS Input Session Mar 2025



TWO POSSIBLE FUTURES

(A) WE DON'T TEACH AI LITERACY

(B) WE TEACH AI LITERACY

Learners':

- Employability
- LLL and adaptability
- Workplace decision-making, implementation, design
- Civic agency

WHAT DOES IT MEAN TO 'TEACH' AI LITERACY?



CELT RESOURCE HUB 'AI IN EDUCATION'



Artificial Intelligence (AI) has a pervasive and lasting impact on education. This resource hub compiles essential information and resources to help UT teachers navigate the changes brought about by AI in education.

Structure of the Hub

The hub is organised around the following thematic areas. Click on the icon to go to the relevant section.



Fundamentals

The basics of (Gen)Al and its safe and responsible use



Assistant

Increase your productivity with AI



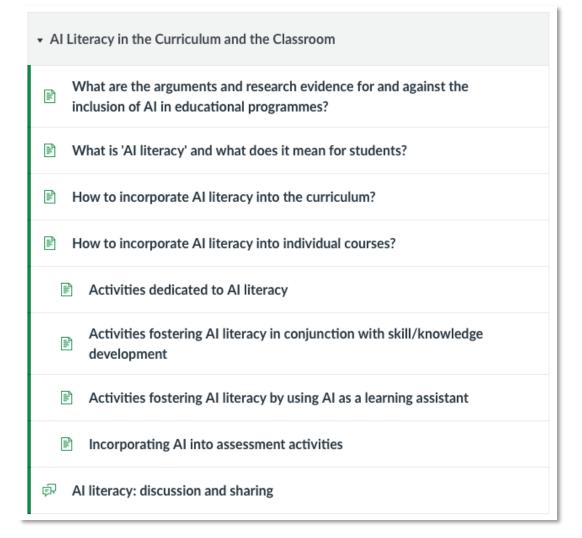
Al as a Teaching Teaching Al Literacy Al and Assessment

Integrate Al literacy in the curriculum

and the classroom



Preserve assessment quality in times of Al



IMPARTING AI-SPECIFIC KNOWLEDGE AND SKILLS

E.g. What is (Gen)Al? How does it work? How to prompt it effectively? What are the possible sources of bias?



Implication of data set selection in generative Al

> Dr. Maryam Amir Haeri Assistant Professor BMS / CoDE Section

https://canvas.utwente.nl/courses/15815/pages/activities-dedicated-to-ailiteracy?module item id=549650



9:00 am to 10:00 am

ntroduction to Generative Al

- How neural networks and Large Language Models (LLMs) function. The complexity involved in crafting
- effective prompts for Al. · Critical insights into the limitations and potential biases of these
- · Strategies for assignments that help students develop Al literacy. including analyzing and producing machine-made stories, and writing assignments that critically engage with AI capabilities.

Institute Introduction: 5 minutes

Introduction to Generative Al 10 minutes Let Us Show You How GPT Works

Train Your Own Neural Network 10 minutes

Activity: Google's Quick, Draw

Introduction to Prompting 15 minutes Activity: Say What You See

A Pedagogical Approach to Build Al Literacy with Students 15 minutes Assignment: From Consumer to

- Creator: Analyzing and Producing
- Assignment: Writing Against

10:00 am to 11:00 am

Ethical Challenges Posed by Generative AI

Learning Outcomes

- Understanding the broader scope of generative AI beyond text generation, including its ethical, legal, and societal implications.
- · Recognizing the potential for AI to be used in spreading propaganda and

PPT of Ethical Challenges 20 minutes

Developing Al literacy for Images 10 minutes Activity: Which Face is Real?

Consider How Misinformation is Spread

Activity: <u>The Bad News Game</u>

Explore an Ethical Challenge 20 minutes

Activity: Ethical Challenges

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https://docs.google.com/document/d/1yP74rO9IWwtmHg3xw_fN CasZ7ScPSFliQ5w5BlYX Gg/edit?tab=t.0

EXAMPLES AND ACTIVITIES

Making concepts and principles tangible in the context of students' learning tasks and the professional domain.

Al Limitations: "Al can provide a generic output but struggles with the specifics"

Example: How Al fails to summarise the conclusions of your paper

Activity: Ask students to use ChatGPT to write a short paragraph comparing two niche theories from their course.

Responsible Use: "If you use AI in a non-critical way, you might become overreliant"

Example: Al-first vs human-first approach to brainstorming ideas for your seminar Activity: Ask a group of students to start working on their assignment with Al and another group without Al. Compare their apporaches through critical questions



EMBEDDING AI INTO TLAS

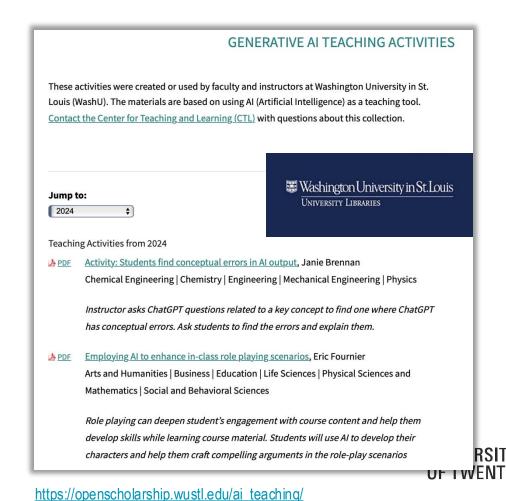
Integrate AI into classroom activities and guide their critical reflection.

Peer Feedback Activity: (20 minutes)

- · In pairs
- Read each other's reflection paper and grade according to the rubric
- Based on your own reflection, come up with a prompt for ChatGPT to create a reflection paper for you. Compare your own writing to ChatGPT's
- Discuss what AI/you could have done better

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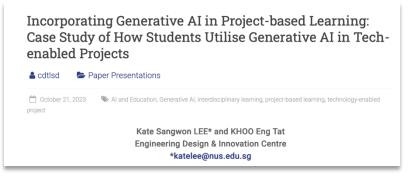
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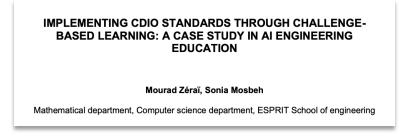
https://canvas.utwente.nl/courses/15815/pages/activities-fostering-ai-literacy-in-conjunction-with-skill-slash-knowledge-development?module_item_id=549651

AI IN PROJECTS AND CBL

- Support organisational tasks, e.g. minute-taking, process tracking
- Supporting knowledge work
- Al-focused (and sustainable) problems/challenges
- Impact of AI technology on the domain



https://blog.nus.edu.sg/hecc2023proceedings/incorporating-generative-ai-in-project-based-learning-case-study-of-how-students-utilise-generative-ai-in-tech-enabled-projects/



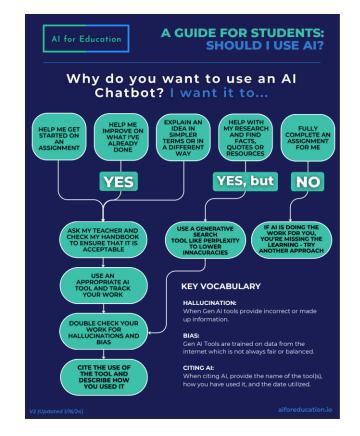
https://cdio.org/sites/default/files/documents/208 CDIO%202024 %20Proceedings.pdf

PROVIDING SCAFFOLDS

Providing students with instruments that support effective (learning) behaviour and performance.



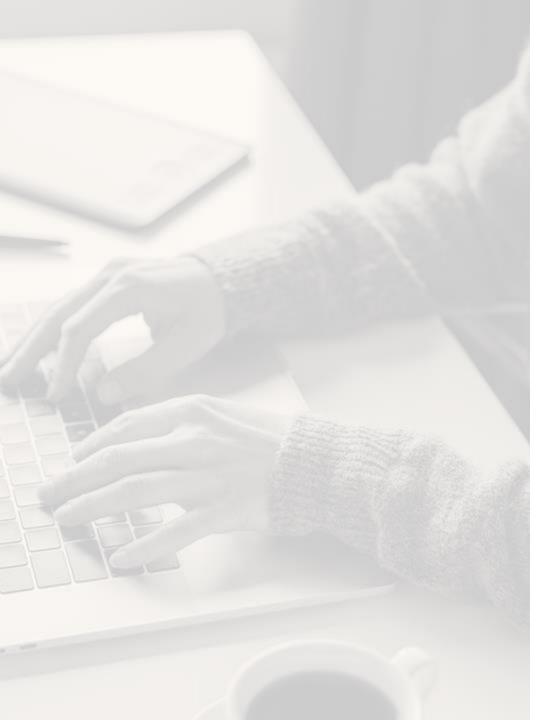




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SUMMARISING: SOME GENERAL GOOD PRACTICES

- Embed Al literacy in the disciplinary context of your course.
- Facilitate the elaboration of key concepts and principles through examples and activities
- Provide performance supports (checklists, guidelines, prompts, etc.)
- Always guide reflection to ensure learners "get" what you want out of the activities
- Coordinate at the programme level to avoid redundancies and cover AI literacy aspects most relevant to students
- Learn with your students



AND NOW WHAT?

Some possible next steps:

- For basic AI literacy: Explore FutureLearn's free AI courses.
- Explore the resources on the AI hub (please, share your resources and examples!)
- Innovation project support (consultations, grant applications, implementing new tools)
- Programme or team workshops and redesign support
- BMS AI Learning Community