

AI literacy for students and teachers at VU Amsterdam

How would you rate your own level of AI Literacy?

1 - 2 - 3 - 4 - 5

What does AI Literacy encompass for you?



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<https://www.menti.com/al2tn1b48trf>

What does ChatGPT say?



That's a great question!

Generative AI is becoming increasingly important, and it is crucial that students not only know how to use these tools, but also understand how to use them responsibly and effectively. Here are some things and skills students should learn:

1. Basic understanding of AI

- What is generative AI? Students should understand how generative AI works, including concepts such as machine learning, training models and data sets. This includes the limitations and biases of AI.
- Ethics in AI: Understand what ethical issues generative AI raises, such as bias, privacy, copyright and social impact.

2. Practical application

- Assisting in writing: How to use general generative AI capabilities for writing.
- Information literacy: How to use AI driven literature search and processing tools such as Consensus, ResearchRabbit, Elicit, Scite, Perplexity, Semantic Scholar, Scholarci etc.
- Prompt Engineering: How do you ask effective questions or commands of generative AI to get valuable output? Consider working creatively with prompts for text, code, images, etc.
- Integration into workflows: How do you use AI tools such as ChatGPT, DALL-E, or other platforms in academic or professional work, such as writing, coding, or design?

3. Critical thinking and evaluation

- **Assess quality:** Be able to analyze whether the output of generative AI is accurate, useful and reliable. This requires knowledge and strong analytical skills.
- **Source attribution and originality:** How do you use AI without plagiarizing or violating academic integrity? Learning to combine AI-generated output with your own work is essential.

4. Creative skills

- Generative AI can be a powerful tool in creative work. Students can learn how to use AI to generate new ideas, create designs or solve problems in innovative ways.

5. Technical skills

- Programming and APIs: For engineering studies, students should learn how to drive AI models through programming languages and APIs.
- Data Preparation: Understanding how datasets are assembled and how they affect models.
- Data Analysis: R/Python Data Science and some code to be able to deal with data and analysis

6. Impact on society and future

- Social and economic impacts: Students should be aware of how generative AI affects jobs, industries and social structures.
- Adaptive learning: How do you stay up-to-date in a world where technology is changing at lightning speed?

7. Impact on teaching and assessment (for teachers)

- How does AI impact the future profession and how does that change learning objectives, teaching and testing.
- How do you ensure that throughout the curriculum, the different phases and courses, the use of AI takes place in a well-directed way
- How to design education in a way that still sufficiently ensures that the learning output can be attributed to the learner.

Discussions

Where and how should students learn this?

Do we need to measure their knowledge at some point?

- Testing during the Taaltoets?
- At the start of the Academic Core?
- As part of Information Literacy?
- Every course again?

By themselves?

- Trial and error?
- Reading a book?
- Learning through e-learning modules?
- All of the above?

Through active processing in teaching and learning?

- Guided by assignments adapted for this task?
- In all activities during all courses?

When should they learn?

- In Ba 1, week 1?
- Throughout Ba 1?
- Throughout Ba?
- Throughout Ma?
- Throughout PhD?

Where and how should staff learn this?

Do we need to measure your knowledge at some point?

By yourselves?

- Trial and error?
- Reading a book?
- Learning through e-learning modules?
- As-you-go-along?
- All of the above?

Be taught?

- Trial and error?
- Reading a book?
- Learning through e-learning modules?
- All of the above?

Bonus question: What do we teach now that is not needed anymore for the future?

Tonen video

<https://www.unesco.org/en/articles/ai-competency-framework-teachers>

https://vunl.sharepoint.com/:w:/r/sites/VU-SOZ-NTenL-StudentAssistenten/Shared%20Documents/Producties%20Activerend%20Blended%20Onderwijs_Ch/06%20-%20Onderwijstips/2024,%20tip%20xx,%20Zo%20verbeter%20je%20als%20docent%20je%20eigen%20AI-competenties.docx?d=w5a049cb9966b42f6ad604d92b73ee58a&csf=1&web=1&e=bBiBes

Ik heb natuurlijk ChatGPT gevraagd wat we studenten moeten leren over generatieve AI. Kunnen we best mee vooruit 🤖