

Contents

How to use these rules and recommendations	3
8 Rules	4
Direction and key principles	7
GenAl – a deep-dive into the technology	8
Recommendations - Education	9
Recommendations - Assessment	10
Recommendations - privacy, security, property	13
Want to find out more?	14
Contact details	16
Colophon	17

How to use these rules and recommendations

Target audience

These rules and recommendations are meant for students, lecturer-researchers and other teaching staff, such as managers, advisers and support staff. The rules and recommendations provide assistance in using GenAI* in an innovative and responsible manner.

Difference between rules, recommendations and key principles

At AUAS, we want to take a responsible approach to using GenAl. This includes providing clarity on where the boundaries lie. **Rules** that set out the parameters to adhere to have been formulated about this subject.

In addition, there are **key principles**: these are issues we believe are important but cannot be properly formulated as a rule or as guidance.

Finally, we provide a set of **recommendations**: these set out what you need to take into account but allow for flexibility on how to do this in your own specific circumstances. We are taking this step as we want to harness the potential of GenAl in education as GenAl develops rapidly. This rapid evolution continues to introduce new opportunities as well as raises new questions. Not all questions regarding GenAl can be properly answered at this stage. The answers we do have do not always fit all the various situations. After all, each degree programme is different. All this requires flexibility for tailored solutions and room to learn and innovate.

GenAl

The rules and recommendations apply to all types of GenAl. GenAl stands for generative artificial intelligence. GenAl allows users to generate different types of output such as text, images, videos, audio, code, based on commands (prompts) provided. ChatGPT is one of the most well-known tools, but there are many others that offer different features, exist in different versions, are available as a paid or free service and are available from different providers.

Inclusive language and readability

In this document, we will frequently refer to the 'lecturer' or 'student' instead of he/she/they. Where the term 'lecturer' is used, we also mean lecturer-researchers and other teaching staff such as managers, advisers and support staff. The rules and recommendations usually apply to both students as well as lecturers. Where an aspect applies specifically to students or lecturers, this will be stated explicitly.

Findability

This document replaces the <u>Guidelines for</u>
<u>Assessment and Graduation</u> and the <u>Guidelines</u>
<u>on Security and Privacy</u>. We will continue to
monitor rapid developments and update this
document as required. Revised versions will always
be distributed through programme managers and
will be available on <u>Education with AI</u>, where you
will be able to ask questions.



8 Rules

These are the rules you as a student, lecturer-researcher or member of the teaching staff (managers, advisers and support staff) must abide by. They set out the parameters within which GenAl can be used in an innovative and responsible manner.

1 Use of GenAl is permitted under certain conditions.

You may use GenAl for the time being* if you abide by the rules and take into account the recommendations set out in this document. You should always ask yourself whether GenAl adds value for the purpose you want to use it for. In addition, you should maintain a leading role in the work and only use GenAl as a tool.

*It may be that we will develop or manage AUAS tools inter alia for security reasons at a later date, in which case an update will be issued.

2 You will be individually responsible at all times

You are responsible for the data you enter into GenAl (find out more here) and for the results (output) GenAl produces (find out more here). As a student, you are always individually responsible for your own work (find out more here). As a lecturer, you are always individually responsible for providing feedback and assessment.

3 You should be transparent about the use of GenAl

Anyone using GenAl should always state this clearly in the product* for which GenAl has been used. *this can be anything, for example: an assignment, a report, test, reflection, design, course material, feedback. Please state

- that GenAl was used and specify which tool and version
- for which purpose GenAl was used (e.g. brainstorming, translation, writing assistant)
- how GenAl was used (e.g.: what prompts you gave, how you handled the output, how you verified the accuracy of the output)
- 4 The privacy and security of data should be handled with care

Do not provide any confidential data. This includes

- personal data: anything from which you can directly or indirectly deduce the identity of the person, such as: their name, date of birth, (email) address, phone number, student ID number.
- special categories of personal data: this includes data relating to someone's political preferences or health.
- do not provide photos of individuals without their consent
- sensitive information about (internship host) companies and institutions.
- research data that may be sensitive or traceable to individuals/companies/institutions. In addition: do not enter any copyrighted material.

If you have any doubts as to whether you are allowed to enter data into GenAl, please get consent from the data subject¹. Students can discuss their doubts with their lecturer. If you cannot come to an agreement together, the lecturer will be able to contact the privacy officer of the faculty or department. Lecturers will be able to contact these officers through the **AZ list**. Lecturers will be able to find out more about privacy at AUAS **here**.

¹ When seeking consent from data subjects, consent must take place on a voluntary, informed, specific and unambiguous basis.

- 5 No one is obliged to use GenAl
 - It is up to you to choose whether to use GenAl and which tools to use. Lecturers integrating GenAl into teaching and/or assessment may ask but not require students to use GenAl. This applies to all forms of GenAl. The reason no one can be obliged is that no tool has yet been assessed as sufficiently secure by AUAS. Please note (for students): even if you are not required to use GenAl, it is useful to be aware of the fact that being able to useGenAl is going to be an important skill in a lot of (future) jobs and that it can help you in your learning process during your studies.
- GenAl in assessment should only be allowed under strict conditions

 Condition 1: GenAl may contribute to but not take over the learning process; students must achieve the learning objectives themselves and be able to demonstrate this. Use of GenAl is therefore only permitted in assessments if students can achieve the learning objectives independently with the use of GenAl. Condition 2: Whether students achieve the learning objectives, also known as learning outcomes, independently, should be readily ascertainable by lecturers. This decision will be made by the programme departments and teaching teams themselves. Condition 3: Students should be transparent about the use of GenAl (rule 3).
- **Provide clear communication about use of GenAl in assessments**The test instructions* will state whether GenAl is permitted, and if so in what way GenAl may be used.
 - *Test instructions can take different forms within the various degree programmes, but will at least include written instructions for students on what is permitted.
- 8 The human perspective is a decisive factor in relation to feedback and assessment of student work using GenAI
 - Lecturers are responsible for giving students feedback and assessing their work. The human perspective and expertise of the lecturer should always take precedence in such cases. Assessments must remain transparent and verifiable at all times. Students hold copyright in respect of their work, meaning that you cannot simply enter work from students into GenAl. If, as a lecturer, you nevertheless want to use GenAl as a tool to provide feedback and/or for assessment purposes, you should
- be transparent: you should make it clear to students in advance that you will be using GenAl for this purpose, how you will be using it and with which tool
- take into account any objections from students²
 never enter data into GenAl that can be traced back to individuals or other confidential data.

As a lecturer, you remain fully responsible for your feedback/assessment. GenAl is fundamentally not made for assessment and is therefore not a valid assessment tool.

² This includes the rights of students and lecturers under the GDPR.



Direction and key principles

These are issues we believe are important but cannot be properly formulated as a rule or as guidance.

We are capitalising on the opportunities of GenAl in education because

- GenAl is part of **society and of the labour market** both currently and in the future.
- lecturers can enhance their **teaching methods** using GenAl
- students can enhance their **learning** with GenAl

We embrace these opportunities. At the same time, we are aware of the **downsides**, which, for example, relate to security, privacy, diversity and sustainability considerations. We take **responsibility** and that means



we always put **people first** and see GenAl as a tool. It's a case of 'man and machine', with humans at the helm.



we **always verify the output of GenAl critically** for accuracy and completeness, e.g. by comparing it with reliable sources. Your own knowledge and critical thinking are essential to being able to make good use of GenAl.



we ensure a **safe** learning and working environment by using GenAl **openly, respectfully and with an awareness of privacy considerations**. We do not use GenAl in a way that may be offensive, inappropriate or misleading. Please be aware of the risks associated with using GenAl. For more information, please contact your faculty's privacy officer.



we critically review whether GenAl's output is **diverse and inclusive**, as the output may contain bias and discrimination.



we exercise due care in terms of what we input into GenAl because we are aware that GenAl learns based on our input.



we use GenAl purposefully in relation to **sustainability**. The energy and water consumption involved in training and using GenAl is significant. Sustainable use can be achieved, for example, by generating images (high energy consumption) only when this adds value.



GenAl is (primarily) made available by major providers with commercial interests. This is not always clear. We try to take an **independent view** in assessing whether the use of GenAl adds value to teaching and studying.



we recognise that there are ethical issues and concerns associated with using GenAl. An example of this is the way GenAl is trained and developed by employing underpaid 'click workers', under difficult working conditions. This is contrary to **human rights and values** such as respect, security and equality. This is yet another reason to be conscientious, critical users of GenAl.

GenAl – a deep-dive into the technology

Generative Artificial Intelligence (GenAl) is a form of Al capable of creating various forms of output such as text, graphics, moving images, audio and code based on specific commands (called prompts). This is done by using probability theory, where GenAl predicts the most likely output based on the specific input. The major GenAl models (such as GPT-4) have been trained on very large datasets of digital information, so the system has learnt to recognise and apply patterns using machine learning. The system also learns from the input and human assessment of the answers and can thus provide increasingly accurate output.

Since the launch of ChatGPT in November 2022, GenAl's offering has gained momentum. There are several commercial providers (such as OpenAl, Google and Adobe) and GenAl is increasingly becoming available in existing software packages(such as Microsoft Windows, Office, and Photoshop). In addition, other models are emerging based on open-source models and Surf is working with the Netherlands Organisation for Applied Scientific Research (TNO) on GPT-NL, a Dutch variant of GPT-3 but trained using Dutch data.

Because GenAl is trained using very large data sets and the algorithms are getting better and better, in many cases the output is difficult to distinguish from human work. In addition, the output is different each time, meaning that the use of GenAl cannot be properly recognised, for example, by a plagiarism detector.

Important: GenAI performs impressively but equally makes mistakes. Knowledge of the domain in which an answer is given is needed to properly assess the output.

What GenAl is not:

- GenAl is not human (even though the interaction seems very human)
- GenAl is not a replacement for humans (even if GenAl can take over certain human tasks)
- GenAl is not a reliable source of knowledge (even though its performance is impressive)
- GenAl is not intelligent because it is not underpinned by a knowledge system (but it can learn)



Recommendations - Education

These recommendations set out elements you need to take into account. They leave room for learning and innovation within specific circumstances. Please also consult the eight rules as well as the direction and key principles sections.

- 1. Output from GenAl may contain errors and biases or be incomplete. To use GenAl effectively, you need both smart prompts and critical assessment of the output. That requires (human) knowledge. **Knowledge in the curriculum** therefore does not become less important because of GenAl, but rather more important.
- **2.** GenAl is not transparent enough about the **sources** and data with which the systems are trained. Particularly in the research domain, you should be clear about your sources and conduct extra checks.
- **3.** The **learning objectives** are key. Students must eventually master the learning objectives independently. You must determine whether GenAl makes a meaningful contribution to achieving the learning objectives.
- 4. Stay informed. Experiment and help each other explore the possibilities of GenAl.
- **5.** Our experiences, knowledge and skills in using GenAl will differ. These differences should be taken into account, for example, as a lecturer when assessing work involving GenAl.
- **6.** It's not just about learning how GenAl works ('operation course') and what you can use it for ('application'). We also need to **become more aware** together and learn about what we believe constitutes responsible use when using GenAl. Discussing dilemmas, doubts, questions, uncertainties and challenges is beneficial in this regard.
- **7.** As a student, you can use GenAl to **take a smart approach to studying**. This includes using GenAl for planning, summarising, doing practice questions, using it as an information tool, etc. As a lecturer, you can help students with this.
- 8. GenAl can support as a **writing assistant**: to get started faster, to generate ideas, as a translation tool, etc. In doing so, you should realise that writing is more than creating a written product. The writing process helps us think critically, analyse, formulate, organise, structure and communicate. Writing is therefore a valuable (learning) process. This is reason enough for many programmes to give human writing skills a permanent place in the curriculum.
- 9. There are lots of possible applications for GenAl in education. A few examples include:
 - Lecturers can have students use GenAl output as a semi-finished product to which they have to add authenticity themselves
 - You can develop a critical, inquisitive attitude by assessing output from GenAl/reflecting on it/ substantiating/refuting it or, if you are a lecturer, having students do those activities.
 - Lecturers can use GenAI as a tool to create lesson plans, rubrics, practice questions, examples, instructions
 - help with planning
 - help with searching for information
 - explanations of difficult concepts
 - asking for feedback
 - creating summaries
 - generating sample/practice exercises
 - gaining inspiration
 - and much more
- **10.** A **future-proof curriculum** will include the applications of GenAl in professional practice. Each faculty has a Centre of Expertise for Applied Al lab where research on (Gen)Al in the professional practice is carried out. Al4Students develops tools for programmes to study the impact of (Gen)Al on the curriculum.

Recommendations - Assessment

These recommendations set out elements you need to take into account. They leave room for learning and innovation within specific circumstances. Please also consult the eight rules as well as the direction and key principles sections.

Assessments. Assessment refers to measuring and determining whether established objectives are/have been achieved. This document applies to the three functions of assessments:

- 1. the learning and development function (stimulating the learning process),
- 2. the decision function (assessment with consequences, e.g. yes/no credits),
- 3. the evaluation function (intended for adjustments to teaching methods or redesign of teaching).

For students: you are ultimately responsible for your work in all cases.

Recommendations on assessments where you, as a lecturer, want to use GenAl responsibly:

- **1.** Engage with students about their **own responsibility** to achieve learning objectives and how using GenAl may or may not be appropriate.
- **2.** Put more emphasis on **the process of learning** rather than the outcome. Conduct mid-term (feedback) interviews with students.
- **3. Be familiar with GenAl**: Run your assessment through GenAl to see what results it produces.
- **4.** Use '**reverse assessment**', where you let students improve, review, assess GenAl's output. This contributes to their sense of quality: the level and quality standards the work should meet in the specific situation.
- **5.** The use of GenAl for an assessment may meet principled objections from students. In that case, you should engage with the student and seek out **customised solutions**, such as an alternative, equivalent assignment.
- **6.** If possible, conduct a **discussion** (e.g. a criterion-based interview) with students regarding assessments with a submission deadline so that you can establish whether they have created the work themselves and/or what their contribution has been
- **7.** For tests and assignments with a submission deadline (such as products, reports, etc.), you can choose to allow students to use GenAl. Always set out if, how and when students may use GenAl. Some examples of the use of GenAl that you can allow include:
 - a. editing reports
 - b. translating passages
 - c. creating a layout for reports, charts, presentations.
 - d. structuring a text or report
 - e. generating images
 - f. processing statistical data
 - g. gaining ideas and inspiration or as a 'sparring partner'
 - h. formulating research questions
 - i. gathering information
 - j. applying models and theories
 - k. generating the structure and layout of a specific product, e.g. a consultancy report

Students must be able to account for the use of GenAl. As the above examples show, GenAl can be used to improve independently created work. To properly assess the submitted work, it is important that lecturers and examiners have insight into how it was created. This means that students retain the original, entered work and can indicate which tool and version they used, what prompts and what output it produced.

Recommendation on assessments where, as a lecturer, you do not want GenAl to be used:

Students should be able to achieve learning objectives independently and lecturers should be able to verify this. Lecturers can therefore decide that GenAl should not be used for certain tests. The following guidance helps counteract unwanted use of GenAl in assessment (and ultimately helps students become proficient professionals):

- **1.** Make sure test questions are **up to date and specific**. This (sometimes) makes them more difficult to answer by GenAl.
- **2.** Where possible (constructively aligned), select authentic professional assignments as the test format. This requires **creativity** from students, making the use of GenAl more difficult.
- **3.** Build formative opportunities into your teaching, which involves reviewing and discussing students' (sub)products/assignments. This allows you to get to know students better and **establish what they are capable of**.
- **4.** Provide a **secure assessment environment** for assessment with specific time at which they are administered, so that GenAl cannot be used undetected.
- **5.** If possible, conduct a **discussion** (e.g. a criterion-based interview) with students regarding assessments with a submission deadline so that you can establish whether they have created the work themselves and/or what their contribution has been.

Generative AI in education:

Fraud and plagiarism and GenAl

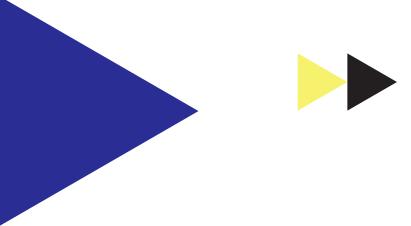
Fraud occurs in the following cases:

- GenAl has been used (as a tool) in cases where this is not permitted
- GenAl has been used (as a tool) in a way other than that permitted by the test instructions*.
 (* Test instructions can take different forms in degree programmes, but at least include the written instructions for students on what is allowed)

Plagiarism occurs in the following cases:

- GenAl was used (as a tool) without or with incomplete source citation
- GenAl was used (as a tool) with incorrect source citation
- work generated by GenAl has been presented as the student's own work.

This could cause a sanction to be imposed on the student, which could have **significant consequences**. The Teaching and Examination Regulations set out how to deal with suspected fraud or plagiarism (see Chapter 4 of the **Teaching and Examination Regulations**).



Recommendations - privacy, security, property

These recommendations set out elements you need to take into account. They leave room for learning and innovation within specific circumstances. Please also consult the eight rules as well as the direction and key principles sections.

- 1. Please **exercise due care in respect of data** you enter as input as it could end up in unwanted places. More often than we think, data can still be traceable to original names/people/companies, etc. due to context. However, you can safely enter public or publicly accessible information. Check a tool's privacy statement to see what the vendor does with data entered as input.
- **2.** When using GenAl, it is often unclear who **owns** the inputs and outputs. Input (prompts) and output can be stored, which the system uses to continue to learn. It also allows it to build a profile of you as a user. Please be mindful of this.
- **3.** There is still much debate about whether GenAl infringes on **copyright**. The systems were partly trained using data despite the original author not having given their consent for this.
- **4.** Please note that a **paid GenAl account** does not effectively guarantee security and privacy.



Want to find out more?

Initial AUAS memorandum ChatGPT/AI in education

Sharepoint Education with Al

Teams environment Education with Al

AUAS Applied AI YouTube

AUAS Impact Magazine Op weg naar de Al-ready student

SURF SIG AI in Education

Government-wide vision Jan 2024



Contact details

Faculty of Technology

Mieke Min – Educational advisor – m.min@hva.nl Jurjen Helmus – Smart Asset Management Lab – j.r.helmus@hva.nl

Faculty of Health and Sports and Nutrition

Christel Haasnoot – Educational advisor – c.haasnoot@hva.nl Jesse Aarden – Smart Health and Vitality Lab – j.j.aarden@hva.nl

Faculty of Digital Media and Creative Industries

Pascal Wiggers – Responsible Al Lab – p.wiggers@hva.nl
Guido Tierolf – Consultant Educational Technology – g.tierolf@hva.nl

Faculty of Applied Social Sciences and Law

Ivar Timmer – Legal Tech Lab – <u>i.timmer@hva.nl</u>
Ananda Verheijen – Educational advisor – <u>a.verheijen@hva.nl</u>

Faculty of Business and Economics

Kees van Montfort – Centre for Financial Innovation, Faculty of Business & Economics – c.a.g.m.van.montfort@hva.nl

Wildo Verdoold – Centre for Market Insights, Faculty of Business & Economics – j.w.j.weltevreden@hva.nl

Enrico Tan - Al Consultant - e.tan@hva.nl

Rosanne Chocolaad - Educational advisor, r.e.chocolaad@hva.nl

Faculty of Education (FOO)

Amber Brand - Teacher trainer and supervisor - a.g.brand@hva.nl
Anders Bouwer - Smart Education Lab, Lecturer and Researcher - a.j.bouwer@hva.nl
Jan-Willem Doornebal - Blended Learning Coordinator - j.w.f.doornenbal@hva.nl
Mieke Willering - Education expert - m.k.willering@hva.nl
Sterre Wolthuis Scheeres - Education expert, teacher
- s.wolthuis.scheeres@hva.nl

Library

Harrie van der Meer – Support Coordinator Information & Digital Skills Training and Teaching Materials – h.a.l.van.der.meer@hva.nl

Centre of Expertise for Applied AI (CoE AAI)

Geert Wissink – Programme manager CoE Applied AI – <u>g.h.wissink@hva.nl</u> **Samantha Maria Koster** – Project support officer – <u>s.m.koster@hva.nl</u>

Education & Research Executive Staff Department

Heleen Wellner – Policy adviser – m.j.h.wellner@hva.nl
Kim Weerts – Policy adviser for Education, Quality & Accreditation – k.j.w.weerts@hva.nl

Privacy & Security Executive Staff Department

Talin Ghazarian - Privacy officer - avg@hva.nl

Colophon

April 2024 Education and Research Policy Office Executive Staff Department in collaboration with the Education with Al Project, the Council for the Chairs of the Examinations Boards, AUAS Academy, and the Privacy & Security and Digital Strategy and Information Policy Executive Staff Departments. Many thanks to the critical readers at the faculty Research & Education departments.



