



CHATGPT ON HIGHER EDUCATION: ASSESSMENT AND ACADEMIC INTEGRITY

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ChatGPT is an artificial intelligence-driven tool designed to quickly generate written content. This feature makes it a convenient and effective tool for searching and summarizing information related to any given topic, and for enhancing your writing abilities (Halaweh, 2023).



Although ChatGPT has the potential to provide various benefits for assessment in higher education, it also presents certain challenges. One of these challenges is the risk of plagiarism, which is associated with the use of AI essay-writing systems like ChatGPT. Such systems are designed to produce essays based on given prompts or parameters, which could allow students to submit work that is not their own. As Dehouche (2021) notes, this undermines the fundamental goal of higher education, which is to educate and challenge students, and could ultimately result in a decline in the value of degrees.

The use of ChatGPT raises concerns that students may utilize it to copy and paste text without adequately analyzing and citing sources, potentially leading to instances of plagiarism. As a result, the generated text may not be appropriate for academic writing (García-Peñalvo, 2023). Tlili et al. (2023) identified several ethical concerns, including the potential for ChatGPT to promote plagiarism and cheating, as well as encourage laziness among students. Additionally, **there is a risk of ChatGPT providing biased or false information**, leading to errors and potentially misleading or incorrect content.

It can be difficult to distinguish between a student's own writing and the responses generated by a chatbot application like ChatGPT. Academic staff may find it difficult to adequately assess the student's understanding of the material when the student is using a chatbot application to provide answers to their queries. **This is because the responses generated by the chatbot application may not accurately reflect the student's true level of understanding** (Cotton, Cotton & Shipway, 2023).



To address the difficulties associated with grading assignments produced by ChatGPT or any chatbots, academic staffs can employ various approaches.

- 1) Instructors can provide students with **precise and comprehensive guidelines** on how to format and organize their assignments. This may help ensure that the assignments are composed in a more coherent and logical manner.
- 2) Instructors can **employ a rubric to evaluate the quality of the student work**, which can help guarantee that the student's comprehension and efforts are adequately assessed.
- 3) Instructors can utilize **a combination of automated and manual grading methods** to evaluate the student's knowledge of the subject. This may help ensure that the student's actual level of comprehension is precisely assessed.

A primary ethical concern associated with ChatGPT is the potential for the generation of false but plausible information by computers, rather than human decision-making. This raises concerns about **students relying excessively on responses generated by the tool without questioning their accuracy**. As such, guidelines promoting critical thinking when using ChatGPT for future research may be necessary to address this issue.

Durall and Kapros (2020) suggest that the design of chatbots should take into account several important factors, including considerations related to **inclusion, usability, technical aspects, ethics, and best practices for their use**. In other words, chatbots should be developed and implemented in a way that is inclusive, user-friendly, technically sound, ethical, and aligns with established best practices for their effective use.



The integration of technology into education is rapidly transforming the way students learn, and educators must adapt by upskilling their competencies and practices to meet the new demands of technology. ChatGPT is a prime example of how technology can make writing essays easier for students, even for those without prior knowledge of a given topic. As a result, educators must consider new teaching philosophies and methods to evaluate their students' learning. For instance, techniques like **oral debates**, could be used to assess students' logical and critical thinking skills, ability to construct persuasive arguments, and overall accuracy and clarity in communicating their ideas.



The potential impact of technology in educational settings is vast, and ChatGPT is no exception. **This AI-based tool has the potential to revolutionize many activities** within education, including searching for information, answering specific questions, engaging in open conversations and discussions, writing and editing reports and essays, generating software codes, providing tutoring through explanations of codes, providing data samples for databases and analysis, solving mathematical calculations and statistical analysis, and even translating texts to other languages.



KE can you create a turkish history test for a freshman class using five answers on 3 questions

Sure, here's a Turkish history test with 3 questions that utilizes five answer choices:

1. Who was the founder of the Ottoman Empire?
 - a) Osman I
 - b) Mehmed II
 - c) Bayezid I
 - d) Selim I
 - e) Suleiman the Magnificent
2. What was the name of the Ottoman Empire's legislative body?
 - a) Grand National Assembly
 - b) Council of State
 - c) Parliament
 - d) Divan-ı Hümeyun
 - e) Majlis
3. Which battle led to the fall of Constantinople in 1453?
 - a) Battle of Ankara
 - b) Battle of Kosovo
 - c) Battle of Varna
 - d) Siege of Vienna
 - e) Siege of Constantinople

Figure 1. ChatGPT Generated Quiz

By utilizing ChatGPT, students and educators alike have access to a wide range of resources that can enhance learning and productivity within the classroom and beyond.

Using ChatGPT in higher education can be advantageous in improving writing skills as it offers features such as generating texts, summarizing information, and creating outlines, which saves time and enhances the quality of work. Furthermore, it is equipped with the ability to identify grammar and style errors, improving the overall clarity and coherence of written content (Atlas, 2023). The tool can also help students build their research skills by providing relevant information, suggesting unexplored aspects, and introducing them to new research topics, enabling them to develop a more in-depth understanding and evaluation of the subject matter (Kasneci et al., 2023).



Halaweh (2023) suggested that **instructors should include the use of ChatGPT in their course syllabus or assessment criteria.** The policy should clearly state the purpose of using the tool and provide guidelines for its proper use. It is important to carefully assess and validate the information generated by ChatGPT, as it may contain irrelevant or incorrect content. It is also crucial to **check the sources of the information and provide proper citations.** Submitting texts produced by ChatGPT without proper citation or modification is considered plagiarism. This means that students should make it clear in their work which parts were generated with the help of ChatGPT. For example, they could indicate which sections or ideas were initially identified through the use of ChatGPT, or which tasks such as editing or paraphrasing were achieved with its assistance. They should also acknowledge the use of ChatGPT in any calculations or data analysis conducted. It is a good practice to provide an audit trail of queries and **a reflection report/note** when submitting your final report, as it can help demonstrate your understanding of the topic and the role of ChatGPT in your work.

ChatGPT's output can facilitate creativity and innovation as students compare and contrast what they produce with the tool's output. Although anyone can use ChatGPT to review information, students can still demonstrate their original ideas as distinct from those generated by the tool. **To assess creativity, reflection notes and viva** are crucial for gauging student comprehension and identifying original ideas. Additionally, **evaluation through presentation** can be a useful tool for instructors to ensure that students have a clear understanding of the topics and issues covered, and are able to defend their ideas or demonstrate their understanding of program codes. This can also provide an opportunity for instructors to ask questions and provide feedback in real-time, which can be helpful for students to further develop their skills and understanding.



Enabling students to use ChatGPT provides them with an equal opportunity to enhance their writing and develop original ideas, which is supported by the faculty. This approach also enables educators to identify students who have invested more time and effort in generating novel ideas than their peers.

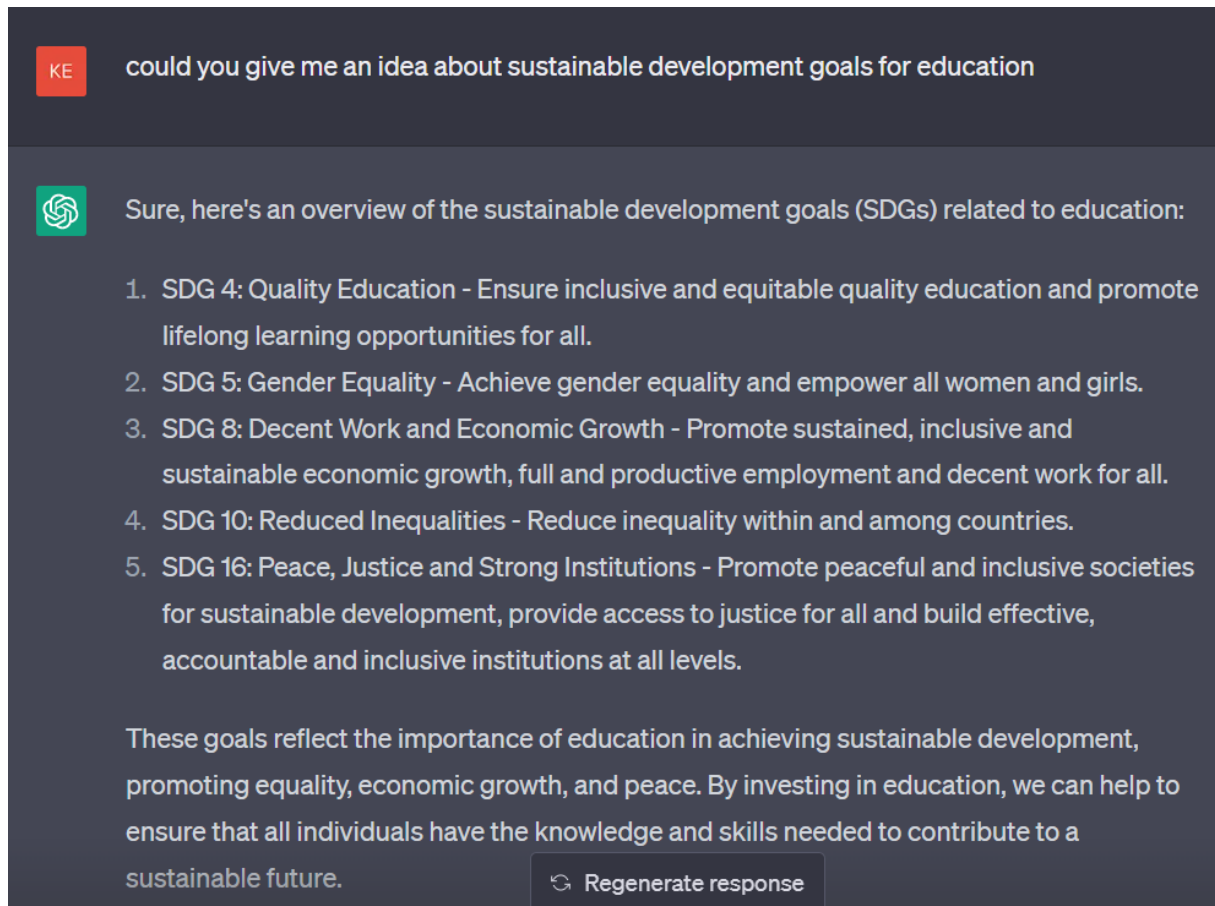


Figure 2: ChatGPT Generated Ideas

As new technologies like ChatGPT emerge, the education field is evolving, **requiring students to develop different skills**, such as critical thinking, idea generation, and effective communication. As a result, assessment methods like presentation and viva will become standard in education, ensuring students understand topics and can defend their work, particularly when collaborating with ChatGPT.



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ChatGPT Education Use Cases, Benefits & Challenges in 2023

<https://research.aimultiple.com/chatgpt-education/>

Further Reading and Resources

- [Don't Ban ChatGPT in Schools. Teach With It.](#)
- [How to use ChatGPT as a learning tool](#)