

Strengthening Students' Academic Responsibility in the Artificial Intelligence Era

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Abstract

The era of Artificial Intelligence has brought significant changes to the world of higher education, including in the way students obtain, process, and present information. This technological development presents both opportunities and challenges, particularly related to students' academic responsibility, which is vulnerable to plagiarism, excessive reliance on automated systems, and a decline in critical thinking and creativity. This literature review article aims to analyze the concept of strengthening students' academic responsibility through a literature review, with a focus on the role of Pancasila Education as a character-building instrument. Pancasila Education has strategic relevance in instilling the values of integrity, honesty, responsibility, and critical thinking necessary to face the development of Artificial Intelligence. The literature review shows that the integration of Pancasila values in the learning process can form the basis of academic ethics, strengthen moral awareness, and build students' reflective attitudes towards the use of technology. Thus, strengthening academic responsibility through Pancasila Education not only equips students with national insight but also prepares them to become an adaptive generation with character and able to utilize Artificial Intelligence is the responsibly.

Keywords: Academic responsibility, Pancasila Education, Artificial Intelligence

Introduction

Higher education plays a strategic role in shaping a young generation with character, competence, and a high sense of academic responsibility. Students, as academics, are not only required to master knowledge but also to cultivate a sense of responsibility in every academic activity they undertake. Academic responsibility encompasses honesty in completing assignments, discipline in attending lectures, and integrity in the process of seeking knowledge. This is an important foundation for the formation of superior and competitive human resources. Responsibility is an individual's attitude and behavior in carrying out their duties and obligations, both to God, the state, society, and themselves (Sarah, 2019). Another opinion is expressed by Laras (2019), who states that academic responsibility is an individual's attitude

carrying out their academic duties and obligations.

The development of Artificial Intelligence/AI brings various ethical challenges, particularly related to automated decisions made by machines. Artificial Intelligence has the ability to perform various tasks that require human-like thinking (Musthafa, 2024). Therefore, students are expected to be able to face the advancement of Artificial Intelligence/AI technology and utilize it ethically and responsibly. Education and upbringing are identified as important elements in shaping individual responsibility (Kidder, 1995). However, the reality on the ground shows that various challenges remain in fostering an attitude of academic responsibility among students. Students often face challenges in understanding ethical concepts in the use of Artificial Intelligence/AI technology. Cases of plagiarism are increasing,

and some students are not yet fully aware of the negative impacts of unethical actions, such as the use of technology for academic cheating. If not addressed immediately, this condition can reduce the quality of higher education and weaken students' character.

The Pancasila Education course is expected to be a vehicle for the formation of students' character and personality that prioritizes moral values, academic integrity, and a responsible attitude towards the use of technology. The definition of character is closely related to the ethical framework, where good character is often associated with moral behavior and virtue (Duckworth, AL 2016). Pancasila Education is very important for building students' ethics and academic responsibility. In line with the results of Putri and Adam's research (2020), it explains that Pancasila Education has a maximum role in developing national character. The results of Wigena et. Al (2022), explain that Pancasila must be a pillar for Indonesian society in anticipation of the wave of digital transformation that has the potential to negatively influence and result in erasing national identity. In this context, students' academic responsibility is a very crucial aspect. Academic responsibility not only includes honesty in compiling scientific papers, but also concerns ethical attitudes, discipline, and moral awareness in using technology wisely. Students as future intellectuals of the nation are required not only to master science, but also to have a strong character so that they are able to face global challenges without losing the value of integrity.

Pancasila education, a compulsory subject in higher education, plays a crucial role in shaping students' character, particularly in strengthening academic responsibility amidst the rapid development of AI. Pancasila, grounded in the values of divinity, humanity, unity, democracy, and social justice, provides a moral and ethical framework that can serve as a guideline in academic life. By integrating Pancasila values, students are expected to develop critical awareness, reflective attitudes, and responsibility in utilizing technology for positive purposes.

Literature Review

This study employed a literature review with a qualitative approach. Data sources were obtained through both primary and secondary methods. The research procedure was conducted by identifying relevant literature sources, including books, national and international journals, proceedings, research reports, and educational regulations related to the topics of academic responsibility, Artificial Intelligence (AI), and Pancasila Education. Literature sources were limited to publications within the last 10 years to ensure freshness, except for classical literature that is still relevant. The literature review was chosen because it is able to provide a comprehensive overview of the issue of strengthening student academic responsibility in the context of the development of Artificial Intelligence (AI), while also examining the relevance of Pancasila Education values in the learning process in higher education. Furthermore, a content analysis was conducted by reading, reviewing, and grouping the literature based on main themes. This analysis was used to find patterns, relationships, and comparisons between relevant research results. Using this method, the article is expected to provide theoretical contributions in the form of developing conceptual studies, as well as practical contributions in the form of Pancasila Education learning strategies that can instill the value of academic responsibility in students amidst the challenges of the development of Artificial Intelligence (AI) technology.

Result and Discussion

Based on the results of a literature review of various previous studies, it shows that students have a dependence on Artificial Intelligence. This is certainly used by students to help complete their academic assignments, so that in the lecture process, students use Artificial Intelligence as a substitute, not an assistant. Because utilizing Artificial Intelligence is considered to have advantages, because AI is able to make decisions quickly and accurately based on available data. The results of research by Mohammad Hmoud et al. (2024), show that the use of AI tools such as ChatGPT can increase student motivation,

which has positive implications for student assignment completion. In line with the results of research by Tinghong Lai et al., (2023), it shows that students who use AI to assist with academic assignments report positive learning experiences. However, although AI offers many benefits for students in completing academic assignments, challenges related to responsibility and academic integrity must be faced. Artificial Intelligence risks reducing the quality of education, because it has the potential to create a generation that does not have the ability to think critically and analyze problems in depth, so that the motivation to think independently is reduced, Nasution (2025). In line with the research results of Wahid Suherman (2023), it was stated that the use of ChatGPT does not help in developing problem solving and critical thinking skills.

Rahmayati and Lubis (2017) explain that a lack of academic responsibility in students can lead to negative and undesirable behaviors. The high demands of studying on campus require modern students to learn more independently, with direction, and responsibly, Arfiah and Sumardjoko (2017) state. Student academic responsibility is the individual's awareness and commitment to carrying out obligations in educational activities honestly, with discipline, and with integrity. This includes the student's ability to maintain academic ethics, avoid plagiarism, and produce original scientific work. Students who demonstrate academic responsibility are characterized by a disciplined attitude in attending lectures, completing assignments on time, and actively participating in the learning process. Furthermore, academic responsibility also includes the ability to manage time, independent learning, and an awareness of the importance of integrity in research.

Students' Academic Responsibilities in the Era of Artificial Intelligence

Research by Anderson & Rainie (2023) shows that plagiarism, data manipulation, and misuse of digital technology are increasing in the era of digital education. Therefore, strengthening moral and ethical values is crucial to balance the use of Artificial Intelligence with students' academic integrity. The development of Artificial Intelligence has had a positive impact on education, including

facilitating access to information, increasing learning effectiveness, and supporting data-driven research. However, on the other hand, the use of AI raises serious issues in the context of academic integrity. Students tend to use Artificial Intelligence technology instantly, for example, to compose papers, translate texts, or complete assignments without going through the process of critical thinking. This has the potential to reduce academic responsibility, which should include honesty, discipline, independence, and respect for the scientific work of others (Sari, 2021).

Integration of Technology and Academic Ethics

Artificial Intelligence should not be viewed solely as a threat, but also as a tool for developing digital literacy. Students with academic responsibility will utilize Artificial Intelligence to deepen their analysis, expand the literature, and improve the quality of their arguments, not to take shortcuts. In this regard, the role of lecturers as facilitators is crucial in providing ethical guidance in the use of Artificial Intelligence (Floridi & Cowls, 2021). Integrating Pancasila values with digital literacy can produce a generation of students who are not only intellectually intelligent but also possess moral sensitivity. This aligns with the concept of ethically aligned design in technology, where the use of AI must always be accompanied by ethical principles and responsibility (IEEE, 2019).

Strategy for Strengthening Academic Responsibility through Pancasila Education

Instilling values, attitudes, and behaviors in students to foster awareness and commitment to fulfilling their academic obligations, embracing Pancasila values as the primary foundation. This strategy aims to develop students who not only excel intellectually but also possess moral integrity, discipline, and a sense of responsibility for the academic process and outcomes. Pancasila education serves as a primary instrument because it embodies core values such as:

1. Ketuhanan Yang Maha Esa. foster academic honesty and avoid all forms of cheating.

2. Kemanusiaan Yang Adil Dan Beradab. encourage students to respect the work of others and uphold scientific ethics.
3. Persatuan Indonesia. fostering a spirit of togetherness and mutual cooperation in academic activities.
4. Kerakyatan Yang Dipimpin Oleh Hikmat Kebijaksanaan Dalam Permusyawaratan Perwakilan. teaching democratic, critical, and dialogical attitudes in academic discussions.
5. Keadilan Sosial Bagi Seluruh Rakyat Indonesia. emphasizing the importance of equal learning opportunities and students' social responsibility towards their environment.

Thus, this strengthening strategy emphasizes the integration between academic learning and character formation based on Pancasila values, so that students can develop as responsible, ethical, and nationalistic intellectuals.

Conclusion

Strengthening students' academic responsibility in the era of Artificial Intelligence is an urgent need to maintain the quality of higher education. The presence of Artificial Intelligence provides significant opportunities for students to access information, accelerate the learning process, and develop creativity. However, on the other hand, it also presents ethical challenges, such as the potential for plagiarism, technological dependence, and weakened critical thinking skills. The results of the study indicate that academic responsibility can be strengthened through three main aspects: (1) understanding and applying academic ethics, so that students continue to uphold scientific honesty; (2) improving digital literacy competencies, so that students are able to use Artificial Intelligence critically and wisely; and (3) strengthening learning independence, so that Artificial Intelligence is used as a partner, not a substitute for the intellectual process. Furthermore, the role of universities is crucial in formulating policies, providing guidance, and instilling values of integrity in students. Thus, strengthening academic responsibility in the era of Artificial Intelligence is not only the responsibility of individual students, but also a synergy between students, lecturers,

and educational institutions. If implemented consistently, students will grow into academics with character, integrity, and the ability to face global challenges responsibly.

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