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Abstract

In the wake of the increasing shift towards online education, particularly exacerbated by global disruptions, institutions face significant challenges in maintaining academic integrity and ensuring equitable assessment practices. This paper examines the role of the educator in maintaining ethical online assessment practices in tertiary institutions. The paper commences by clarifying the concept of assessment, stating its purposes, discussing online assessment tools, ethical online assessment and the challenges in maintaining ethical standards in online assessment in tertiary institutions. It was observed that, the educator has a crucial role to play in ensuring ethical online assessment standards which includes; ensuring academic integrity, promoting fairness and equity, developing assessment strategies that reflect true learning outcomes amongst others. It is the view of the authors that tertiary institutions should develop and enforce clear and comprehensive guidelines on ethical online assessment practices. These policies should clearly outline the expectations for both educators and students, detailing what constitutes ethical behavior and the consequences of academic dishonesty among others will help to maintain ethical online assessment practices in tertiary institutions.

Keywords: Educators, Ethical, Online Assessment

Introduction

One cardinal role of the educator, in this context, the teacher or facilitator in the education process is to evaluate the lesson taught in a classroom setting aimed at ascertaining the level of students attainment of instructional objective. This, the teacher or facilitator does using different channels of assessment techniques i.e. class assignment, tests, examinations.

Assessment plays a critical role in the educational process, serving as a key mechanism for evaluating student learning, guiding instructional decisions, and shaping academic outcomes. Broadly, assessment refers to the structured process of gathering, analysing, and interpreting information about students' learning to make informed decisions about their educational progress. As stated by Brown and Glasner (2020), assessment is the collection of data on students' performance to evaluate the extent to which educational objectives are being achieved. Similarly, Williams et al. (2021) define assessment as a systematic process designed to evaluate and improve student learning by aligning learning outcomes with assessment tasks and feedback. Assessment not only measures student achievement but also provides insights into the effectiveness of instructional strategies and curriculum design.

In recent years, with the advent of digital technologies, traditional methods of assessment have expanded to include online assessments, which have become increasingly prevalent in tertiary institutions. Online assessment refers to the use of digital platforms and tools to administer, manage, and evaluate student performance remotely. As noted by Adeyemi et al. (2020), online assessments offer flexibility, accessibility, and efficiency, making them a practical solution for institutions adapting to evolving learning environments. This shift to online assessment, however, introduces several challenges, particularly in maintaining ethical standards such as fairness, integrity, and academic honesty.

With the rise of online learning platforms, tertiary institutions now face the urgent task of enforcing ethical standards in digital assessments. Ethical online assessment refers to the practice of conducting assessments in a digital environment in a manner that upholds fairness, integrity, transparency, and accountability. According to Ajayi et al. (2020), ethical online assessment involves “implementing assessment practices that are unbiased, equitable, and designed to reflect the true capabilities of students without allowing for manipulation or unfair advantage.” These practices ensure that assessments are not only effective in measuring student outcomes but also safeguard the integrity of the educational process by preventing misconduct such as cheating or plagiarism.

Ethical assessments provide all students with equal access to assessment materials and clear grading criteria, avoiding bias, discrimination, or favouritism. Furthermore, ethical assessments accommodate diverse learning styles and special needs, ensuring inclusivity. As Musa et al. (2021) note, an ethical assessment must also be reliable and valid, meaning that it accurately measures intended learning outcomes and produces consistent results. In contrast, unethical assessments may involve unclear instructions, biased grading, or insufficient measures to prevent dishonesty, which can lead to academic misconduct and compromise the integrity of the educational system (Johnson et al., 2022).

The increasing reliance on online assessments has intensified the need to focus on these ethical considerations. Educators play a crucial role in developing assessments that not only measure learning outcomes effectively but also minimise opportunities for misconduct. Omotayo et al. (2020) emphasize that the rapid expansion of online learning environments necessitates embedding ethical principles in assessment design, with secure digital platforms and clear guidelines on academic integrity. As the shift from traditional to online assessment

progresses, educators must continuously adapt and innovate to ensure that ethical standards evolve alongside technological advancements.

Moreover, ethical online assessment practices are essential for maintaining the credibility of higher education institutions. As Abubakar and Musa (2022) argue, the credibility of educational institutions is directly linked to the reliability of their assessment methods. By upholding ethical standards, educators safeguard the integrity of academic qualifications, which is fundamental to students' future career prospects. Thus, as online assessments become more integral to higher education, the responsibility of educators in maintaining ethical standards grows, linking the technical aspects of digital assessment to the broader context of academic integrity and institutional accountability.

Concept of Assessment

Assessment is a crucial component of the educational process, used to measure student learning and guide instructional decisions. It is defined as the process of gathering, interpreting, and using information to improve student learning. According to Harlen (2021), assessment is the practice of making judgments about students' knowledge and skills through the collection and analysis of evidence. Assessment is an evaluative practice that supports learning. Furthermore, Newton (2020) describes assessment as a systematic approach to evaluating student performance to determine how well educational objectives are being achieved. Similarly, McMillan (2019) explains that assessment involves the continuous process of understanding and improving student learning through feedback, measurement, and reflection.

Assessment serves multiple purposes, ranging from diagnostic functions that help identify students' strengths and weaknesses to summative evaluations that determine overall academic achievement. At its core, assessment is a systematic process of collecting, interpreting, and using information to support decision-making in education.

Assessment can take various forms, each serving different functions within the educational framework:

1. **Formative Assessment:** This type of assessment occurs during the learning process, providing continuous feedback to both students and teachers. Its primary purpose is to guide learning, allowing educators to adjust teaching strategies and students to improve their performance. Examples include quizzes, in-class activities, and informal feedback sessions.
2. **Summative Assessment:** Conducted at the end of a learning period, summative assessment evaluates the overall achievements of students. This form of assessment typically results in grades or scores that reflect students' mastery of the subject matter. Common examples include final exams, standardized tests, and end-of-term projects.
3. **Diagnostic Assessment:** This type of assessment is used to identify students' prior knowledge, skills, and potential learning gaps before instruction begins. It helps educators

tailor their teaching to meet the specific needs of students. Examples include pre-tests, initial interviews, or surveys.

4. **Peer and Self-Assessment:** These methods encourage students to evaluate their own or their peers' work. Peer assessment fosters collaboration, while self-assessment promotes reflection and self-awareness in learning.

Purpose of Assessment

Assessment serves several key purposes in the educational system as Abubakar and Musa (2022) highlights the following:

1. **Measuring Learning Outcomes:** One of the primary purposes of assessment is to measure whether students have achieved the learning outcomes set for them. This helps ensure that educational goals are being met and provides a benchmark for student progress.
2. **Guiding Instructional Decisions:** Teachers use assessment data to make informed decisions about their instructional methods. If students are struggling with a particular concept, the teacher may decide to revisit the topic or adopt a different teaching strategy.
3. **Providing Feedback:** Assessment provides valuable feedback to students about their performance. Formative assessment, in particular, offers continuous feedback that helps students understand their strengths and areas for improvement.
4. **Motivating Students:** Assessment can act as a motivational tool, encouraging students to engage more deeply with the subject matter. It can also provide a sense of accomplishment when students see their progress through formative or summative evaluations.
5. **Accountability:** Assessment data is often used for accountability purposes at institutional or policy levels. Educational institutions use assessment results to monitor the effectiveness of teaching methods and programs, while governments may use them to measure overall educational standards.

Online Assessment

Online assessment, a subset of general assessment practices, uses digital tools and platforms to administer tests and evaluate student performance remotely. With advancements in educational technology, this method has become prevalent in various educational institutions. Gikandi (2020) defines online assessment as the utilisation of technology-based tools to assess learners' knowledge, skills, and competencies in a virtual learning environment. Similarly, according to Clark et al. (2021), online assessment refers to the process of evaluating student learning and performance using internet-based platforms that support remote learning and testing. It represent a shift from traditional assessments to more flexible and accessible digital formats. Another perspective from García-Peñalvo (2021) highlights that online assessment is an evaluative method that leverages digital technologies to provide real-time feedback and monitor students' progress in virtual settings.

Online Assessment Tools

In tertiary institutions, the use of online assessment tools has become increasingly prevalent as technology continues to transform education. These tools support the shift from traditional paper-based assessments to digital formats, offering various features that enhance the evaluation process, improve accessibility, and promote academic integrity. According to Guàrdia et al. (2020) some of the most commonly used online assessment tools in tertiary institutions include:

1. Learning Management Systems: Learning Management Systems such as Moodle, Blackboard and Canvas are widely used in tertiary institutions for managing online assessments. A Learning Management System is a digital platform designed to deliver, manage, and track educational content and activities. It provides a structured framework through which instructors can create, distribute, and assess learning materials, and students can access and interact with these materials in an organised manner. LMS platforms are widely used in educational institutions and corporate training environments to facilitate both face-to-face and online learning. These platforms provide a centralized space where educators can design, administer, and grade assignments, quizzes, and exams. Key features include:

- Automated grading for multiple-choice, true/false, and short-answer questions.
- Assignment submission portals where students can upload essays, projects, and other coursework.
- Rubrics for grading, allowing transparent and consistent evaluation of student work.
- Timely feedback tools that allow instructors to provide real-time comments on student submissions.

2. Proctoring Software: Proctoring software refers to digital tools designed to monitor and ensure the integrity of online assessments. These tools are used to prevent academic dishonesty by supervising students remotely during exams or quizzes. Proctoring software often includes features such as video and audio monitoring, screen capture, browser lockdown, and identity verification to detect and deter cheating (Martin et al. 2020). Online proctoring tools are crucial for maintaining academic integrity during remote exams. These tools ensure that students do not cheat or engage in unethical behavior by:

- Monitoring students through webcam or screen recording to detect any suspicious activities during exams.
- Locking browsers to prevent access to unauthorized websites, resources, or external applications during the test.
- Facial recognition and ID verification, ensuring the identity of the student taking the exam matches the enrolled individual.

3. Plagiarism Detection Tools: Plagiarism detection tools are software applications designed to identify instances of plagiarism in academic writing and other forms of content. These

tools compare submitted text against a vast database of sources, including academic papers, websites, books, and previously submitted student assignments, to detect similarities and potential instances of unoriginal content (Smith et al 2020). The goal is to ensure academic honesty and originality in student work, which is essential in maintaining the integrity of the educational process. In tertiary institutions, maintaining academic honesty is critical. Tools like Turnitin, Grammarly and Unicheck are employed to detect plagiarism in student submissions. These tools compare student essays, reports, and theses against a vast database of academic articles, web content, and previously submitted works. They provide:

- Similarity scores that highlight any text copied from external sources without proper attribution.
- Detailed reports that allow educators to review the originality of student work and guide students in avoiding plagiarism.

4. **Quiz and Polling Tools:** Quiz and polling tools are digital platforms that allow educators to engage students interactively through quizzes, polls, and surveys. These tools are frequently used in both in-person and online classrooms to assess student understanding, provide instant feedback, and encourage active participation (Thomas, et al 2021). They help educators gauge student progress, clarify misconceptions, and stimulate discussions in real-time. For formative assessments, tools like Google Forms, Microsoft Forms, Socrative and Kahoot are popular for conducting quizzes and surveys. These tools offer flexibility in creating engaging and interactive assessments, with features such as:

- Customizable question types (e.g., multiple-choice, short answer, matching) that align with different learning objectives.
- Instant grading for objective questions, providing immediate feedback to students.
- Engagement features, such as leaderboards in Kahoot, which encourage participation and motivation in learning activities.

Ethical Online Assessment

Ethical online assessment refers to the process of conducting assessments in a digital environment while upholding fairness, equity, and integrity. Ethical considerations in online assessment are crucial to ensure that the evaluation process is just, transparent, and free from biases. As argued by Farrell and Rushby (2021), ethical online assessment involves the implementation of practices that ensure equal opportunities for all students, uphold academic integrity, and maintain the credibility of the assessment process. This underscores the importance of fairness and integrity in digital assessments. Similarly, Hickman et al. (2020) state that ethical online assessment is defined by the principles of transparency, accountability, and the prevention of academic dishonesty, ensuring that all students have equal access to assessment resources and support. Another perspective from Taylor and Landrum (2021) posits that ethical online assessment ensures that digital assessments are

conducted in a manner that reflects students' true abilities without giving undue advantages or opportunities for misconduct.

Examples of ethical online assessments include the use of robust proctoring systems to deter cheating, implementing clear guidelines on academic misconduct, and providing equal access to students with diverse needs. For instance, using artificial intelligence (AI)-based tools to monitor assessments can reduce opportunities for dishonesty. Another example involves creating online assessments that are fully accessible to students with disabilities, ensuring fairness and inclusivity. These practices reinforce the need for ethical standards to be embedded in all aspects of online assessments to preserve the integrity of academic qualifications.

Challenges in Maintaining Ethical Standards in Online Assessments in Tertiary Institutions

Maintaining ethical standards in online assessments has become a pressing issue as institutions increasingly adopt digital learning platforms. While online assessments offer significant advantages in terms of flexibility, accessibility, and efficiency, they also present unique challenges in upholding fairness, integrity, and academic honesty. These challenges stem from the difficulties in ensuring consistent ethical practices, managing technological constraints, and preventing academic misconduct. The following challenges have been identified:

Academic Integrity and Cheating: One of the most critical challenges in maintaining ethical standards in online assessments is ensuring academic integrity. The virtual nature of online assessments makes it easier for students to engage in dishonest practices such as cheating and plagiarism. According to Ajayi et al. (2020), the lack of physical supervision in remote assessments often creates opportunities for unethical behaviour, as students can use unauthorized materials or receive external assistance. Additionally, technologies like screen sharing or multiple device usage can complicate efforts to monitor students during exams. The rise of contract cheating—where students hire third parties to complete their assignments—has also become a significant concern in online education. Without face-to-face interaction, it becomes difficult to verify whether the submitted work genuinely belongs to the student. Furthermore, many online platforms lack robust mechanisms for detecting plagiarism or verifying student identities, thus exacerbating the challenge of maintaining ethical standards.

Fairness and Equity: Ensuring fairness and equity in online assessments is another major ethical challenge. Students come from diverse socio-economic backgrounds, and not all have equal access to reliable internet connections, digital devices, or conducive learning environments. As Johnson et al. (2021) note, students from disadvantaged backgrounds may be unfairly penalised if technical difficulties or poor access to resources affect their ability to complete online assessments. This disparity can create an uneven playing field, where students' results are influenced by factors unrelated to their academic abilities.

Technological Limitations and Security Issues: The technological infrastructure required to maintain ethical online assessments is another area of concern. Online assessments depend heavily on secure platforms that can prevent hacking, unauthorized access, or data breaches. However, many educational institutions face challenges in implementing and maintaining these technologies due to financial or technical constraints. As Adeyemi et al. (2020) point out, technological limitations such as inadequate proctoring tools or weak cybersecurity measures can undermine the integrity of online assessments. Instances of students bypassing security measures to manipulate results or gain access to exam questions ahead of time are increasingly reported. Moreover, the sudden shift to online learning caused by the COVID-19 pandemic has led to the rapid adoption of digital assessment platforms, sometimes without thorough vetting of their security features. This has resulted in various technical glitches and security vulnerabilities that compromise the ethical administration of assessments.

Authenticity and Student Verification: Another significant challenge is verifying the authenticity of students' work and confirming their identity during assessments. In traditional in-person assessments, identity verification is straightforward through physical attendance. However, in online assessments, ensuring that the student taking the test is indeed the registered candidate becomes more complex. According to Omotayo et al. (2020), many online platforms lack robust identity verification mechanisms, increasing the risk of impersonation or fraudulent activities. While some institutions use proctoring software or video monitoring to verify students' identities, these tools raise concerns about privacy and data protection. Furthermore, students may find ways to circumvent such technologies by exploiting loopholes or engaging in collusion, thus undermining the integrity of the assessment.

Assessment Design and Quality: Designing ethical online assessments that accurately measure student learning is another significant challenge. Poorly designed online assessments can unintentionally encourage dishonest behaviour or fail to evaluate students' true capabilities. For instance, multiple-choice questions, which are common in online assessments, may be more susceptible to guesswork or collaboration among students. As noted by Musa et al. (2021), poorly designed assessments that are too easy or repetitive can fail to challenge students adequately, leading to a lack of engagement and increased opportunities for misconduct. Additionally, it can be difficult to design assessments that are both fair and rigorous in an online environment. Some students may struggle with technical issues that interfere with their performance, while others may find ways to exploit the system to gain an unfair advantage. Ensuring that online assessments are valid, reliable, and reflective of the intended learning outcomes is crucial for maintaining ethical standards, but achieving this balance is challenging.

Educators' Role and Monitoring: According to Abubakar and Musa (2022), online assessments place more responsibility on students to act ethically, making it difficult for educators to intervene if issues arise. Without in-person invigilation, it becomes challenging to detect suspicious behaviour, such as collaboration during exams or the use of unauthorized

resources. Furthermore, the increased workload associated with designing and managing online assessments can lead to inconsistencies in the application of ethical standards. Teachers may not always have the necessary training or support to create secure, equitable assessments in a digital format. As Omotayo et al. (2020) argue, educators need continuous professional development to stay up-to-date with technological advances and ethical best practices in online assessments.

Role of Educators in Designing Ethical Online Assessments

Educators play a pivotal role in ensuring that online assessments are not only effective in measuring student learning but also adhere to ethical standards. Designing ethical online assessments requires a delicate balance between maintaining academic integrity, ensuring fairness, and leveraging technology to create secure and equitable evaluation processes. As online education continues to expand, particularly in tertiary institutions, educators' responsibilities have shifted from traditional classroom roles to a more complex interplay of technological, pedagogical, and ethical considerations.

1. Ensuring Academic Integrity: One of the primary roles of educators in designing ethical online assessments is to uphold academic integrity. This involves creating assessments that minimise opportunities for cheating, plagiarism, or other forms of academic dishonesty. According to Johnson et al. (2020), educators can promote integrity by using diverse assessment types, such as open-ended questions or project-based evaluations, which require deeper understanding and are harder to plagiarise. Educators also have a responsibility to educate students on the importance of academic honesty and the consequences of dishonest behaviour in an online environment. Technological tools, such as plagiarism detection software and secure proctoring systems, can also aid in maintaining integrity. However, as Omotayo et al. (2021) argue, relying solely on technology is not sufficient. Educators must design assessments in ways that encourage ethical behaviour by fostering a sense of accountability and personal responsibility in students. Providing clear guidelines on what constitutes acceptable behaviour during online assessments and offering support for students struggling with academic pressures can also mitigate misconduct.

2. Promoting Fairness and Equity: Fairness and equity are key ethical considerations in online assessment design. Educators must ensure that all students, regardless of their socio-economic background or physical abilities, have equal access to the assessment tools and resources necessary to perform well. This involves accommodating diverse learning needs, such as providing alternative assessment formats for students with disabilities or extending deadlines for those facing technical difficulties. According to Musa et al. (2021), equity in online assessment design requires educators to be aware of the digital divide that affects many students and take steps to mitigate its impact. In addition to accommodating diverse needs, educators must ensure that assessment criteria are transparent and consistently applied. Clear communication of expectations, grading rubrics, and feedback processes helps to avoid bias and ensures that all students are assessed fairly. For example, if some students have

intermittent access to the internet, providing offline options or allowing for flexible submission times can help level the playing field (Adeyemi et al., 2020).

3. Designing Secure and Transparent Assessment Systems: Security is a fundamental component of ethical online assessment design. Educators are responsible for implementing secure systems that protect the integrity of the assessment process and safeguard student data. According to Ajayi et al. (2020), educators should use platforms that provide robust security features, such as encrypted submissions, secure login procedures, and identity verification tools. These measures help prevent unauthorized access and protect the privacy of student information, ensuring that the assessment process remains confidential and trustworthy. Transparency in assessment design is equally important. Educators must ensure that students understand the rules governing online assessments, the criteria for evaluation, and the tools used to monitor academic integrity. For instance, if proctoring software is used, students should be informed about how it operates and the data it collects (Williams et al., 2021). This transparency not only helps to build trust but also empowers students to engage in the assessment process ethically.

4. Developing Assessment Strategies that Reflect True Learning Outcomes: A critical role of educators is to design assessments that accurately reflect students' learning outcomes while remaining ethical. Online assessments should not merely replicate traditional methods but should take advantage of digital platforms to create innovative, authentic tasks that require critical thinking, creativity, and problem-solving. For example, instead of relying solely on multiple-choice exams, educators can incorporate collaborative projects, discussion boards, or case studies that align with real-world applications of the subject matter (Johnson et al., 2021). Moreover, educators must ensure that these assessments are aligned with learning objectives and are valid and reliable. As Musa et al. (2021) note, valid assessments accurately measure the skills and knowledge they are intended to assess, while reliable assessments produce consistent results over time. Ethical assessment design requires careful consideration of these factors to ensure that students are evaluated on their actual abilities, not on external factors such as technological proficiency or access to resources.

5. Creating Opportunities for Continuous Improvement and Reflection: Educators play a key role in fostering a culture of continuous improvement in ethical online assessment practices. This involves regularly reviewing and refining assessment strategies to ensure they remain fair, secure, and effective. Educators should seek feedback from students on their experiences with online assessments and use this information to make necessary adjustments. According to Abubakar and Musa (2022), reflective practices help educators identify potential ethical issues in their assessment designs and develop more robust strategies to address them. Professional development is also crucial in this regard. As online education evolves, educators must stay up-to-date with the latest technological tools and ethical guidelines. Engaging in continuous learning and collaboration with peers can help educators enhance their ability to design assessments that are both ethical and effective.

Institutional Policies and Educators' Role in Upholding Ethical Standards

Institutional policies play a crucial role in establishing and maintaining ethical standards for online assessments in educational settings. These policies provide a framework for expected behaviours and practices regarding academic integrity, ensuring that both educators and students understand their responsibilities. Clear guidelines regarding assessment practices, plagiarism, and academic misconduct are essential for fostering an environment of trust and accountability.

Educators are integral to the effective implementation and enforcement of these institutional policies. They serve as the frontline defenders of academic integrity by modelling ethical behaviour, educating students about the importance of honesty in their work, and enforcing institutional guidelines. This includes actively communicating the consequences of academic dishonesty and providing resources for students to understand proper citation practices and study methods. As noted by Turner et al. (2020), educators must not only adhere to institutional policies themselves but also instil a culture of ethical behaviour among their students. Moreover, educators can collaborate with administrative bodies to continually refine and improve institutional policies to address emerging challenges related to online assessments. This collaboration can involve feedback on the effectiveness of current policies, sharing experiences from the classroom, and proposing innovative solutions to maintain academic integrity in a rapidly changing educational landscape. According to Jones et al. (2022), proactive engagement from educators in policy development and revision processes can enhance the effectiveness of institutional strategies and ultimately lead to more robust ethical standards in online assessments.

Conclusion

The role of educators in promoting ethical online assessment practices in tertiary institutions is pivotal to maintaining the integrity of higher education in the digital era. As the reliance on online assessments grows, so too does the need for educators to design and implement assessments that uphold fairness, equity, and transparency. Ethical online assessments ensure that all students are evaluated based on their true abilities while minimizing opportunities for academic dishonesty. Educators, as facilitators of learning, must not only focus on the technical delivery of assessments but also embed ethical principles into their design and execution. This responsibility extends beyond the individual assessment task to fostering a culture of academic integrity that permeates all aspects of the learning environment. Therefore, continuous training, innovative assessment design, and the use of appropriate technology are essential for educators to effectively promote ethical practices in online assessments.

Recommendations

The following recommendations were made:

1. Institutions should provide ongoing training for educators on best practices for designing and delivering ethical online assessments. Workshops and professional development

programs should focus on integrating ethical principles into assessment design, understanding the capabilities of new technologies, and preventing academic misconduct in virtual environments.

2. Tertiary institutions should develop and enforce clear and comprehensive guidelines on ethical online assessment practices. These policies should clearly outline the expectations for both educators and students, detailing what constitutes ethical behaviour and the consequences of academic dishonesty. Ensuring that all stakeholders are aware of these policies is critical for maintaining the integrity of online assessments.
3. Institutions should invest in secure, reliable, and privacy-conscious technologies that help deter academic misconduct in online assessments. Proctoring software, plagiarism detection tools, and secure Learning Management Systems can support educators in monitoring assessments and preventing cheating, but must be balanced with respect for student privacy and accessibility needs.
4. To cater to diverse student needs and learning styles, educators should design assessments that go beyond traditional exams. Including project-based assessments, open-book exams, presentations, and peer assessments can provide more authentic evaluations of student performance and reduce opportunities for academic dishonesty.
5. Educators should actively promote a culture of academic integrity by discussing ethical issues in class, providing clear instructions on acceptable practices, and offering resources for students to learn about academic honesty. This could involve integrating discussions on ethics into the curriculum, making ethics a part of assessment-related communications, and encouraging students to take ownership of their learning and academic work.

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