



INTEGRATING DIGITAL CITIZENSHIP EDUCATION INTO UNIVERSITY POLICY FRAMEWORKS FOR GEN Z LEARNERS IN NIGERIA

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DOI: <https://doi.org/10.5281/zenodo.19710285>

Key words:

Digital
Citizenship,
University
Policy, Gen Z
Learners, Social
Media Ethics,
Misinformation,
Digital Rights,
Nigeria

Abstract: *The rapid digitalization of higher education has transformed how students learn, communicate, and engage with information. For Generation Z learners in Nigeria, who are deeply immersed in digital environments, the need for structured digital citizenship education has become critical. This paper examines the integration of digital citizenship education into university policy frameworks in Nigeria, with emphasis on responsible social media use, online ethics, misinformation, and digital rights. Drawing from contemporary literature, the study highlights the relevance of digital literacy, cybersecurity awareness, and ethical engagement in fostering responsible digital behavior. It also explores institutional challenges such as policy gaps, infrastructural limitations, and lack of coordinated frameworks. The paper argues that embedding digital citizenship into university policies will enhance students' critical thinking, ethical awareness, and participation in digital society. Recommendations are provided for policymakers and educational leaders to develop comprehensive, inclusive, and adaptive policy frameworks that align with the needs of Gen Z learners in Nigeria.*

INTRODUCTION

The integration of digital technologies into higher education has significantly reshaped teaching, learning, and communication processes. Nigerian universities are increasingly adopting digital platforms for instruction, research, and administrative functions. Learning management systems, virtual classrooms, and online collaboration tools have

become central to academic delivery, especially in the wake of global disruptions that accelerated digital transformation. These developments have expanded access to education, enhanced flexibility, and improved institutional efficiency.

However, this transformation has also introduced complex challenges related to irresponsible social media use, misinformation,

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cyberbullying, and violations of digital rights. The open and often unregulated nature of digital platforms exposes students to harmful content, manipulative information, and unethical online practices. Incidents of academic dishonesty facilitated by digital tools, identity theft, and online harassment are becoming increasingly prevalent within university environments. These challenges are particularly pronounced among Generation Z learners, who are digital natives and rely heavily on online platforms for social interaction, identity formation, and academic engagement. Their constant connectivity, while advantageous, also makes them more vulnerable to digital risks and ethical dilemmas.

Digital citizenship is an ethical, informed, and responsible use of digital technologies. It includes skills like online etiquette, digital literacy, cybersecurity awareness, critical analysis of information, respect for digital rights, and responsibilities. It also entails the realization of the consequences of digital footprints in the long-term and the need to uphold integrity in Internet interactions. The authors of the study by Apata, Adeate, and Shogbesan (2025) point out that establishing digital citizenship skills is a key to introducing learners to the Fourth Industrial Revolution (4IR) and promoting their responsible use of the digital space. Such skills are not only needed to succeed in academic endeavors, but also to lead an active and ethical life in a digitally-driven global society.

The fact that the internet penetration rate and mobile technology are increasing at an extremely high rate worsens the need to educate

the digital citizens in Nigeria. These developments have on the one hand enabled information to be more accessible and more democratic but on the other hand have aided the transmission of misinformation and other internet evils. Colleges of higher learning, where knowledge is created and where the personalities are molded, are on the frontline regarding work on these issues, through methodical educational interventions and policy responses.

Despite its importance, the question of digital citizenship education is not addressed in the policies of the universities in Nigeria appropriately. The existing policies tend to concentrate on the application of technology and the creation of infrastructures without giving due consideration to the ethical, societal and behavioral factors of the digital engagement. The access to digital tools and responsibility in their use among the students has an apparent difference. This lack of connection emphasizes the need to have comprehensive policy frameworks that will inculcate the concepts of digital citizenship into institutional practices.

The paper examined ways universities can integrate the concept of teaching digital citizenship into policy-making to become more competent in terms of educating Gen Z students about the importance of being responsible about their digital actions. It asserts that the most effective way of ensuring consistency, accountability, and sustainability in ensuring ethical digital behavior is a policy-based approach that would be required in encouraging



ethical digital behavior in the institutions of higher learning in Nigeria.

LITERATURE REVIEW

Digital citizenship is an idea that has been receiving more research in the field of education, especially in the contemporary global digitalization. Researchers have highlighted the importance of preparing students with the capabilities and principles they need to be able to navigate the challenging digital realms responsibly. Apata and colleagues (2025) emphasize the role of systematic frameworks, like the one introduced by Ribble, in the formation of the competencies concerning digital access, communication, literacy, and ethics. Their analysis highlights the need to implement the inclusion strategy that could address the needs of all learner groups in Nigeria so that digital citizenship education is available to all students irrespective of their socio-economic status.

According to Oludipe, Coetzer, and Morales (2025), global citizenship education serves as a guiding framework to comprehend digital societies that are intertwined. They stress that in a world that is becoming more globalized students need to be prepared with the skills of interacting ethically and responsibly across digital boundaries. They indicate that to incorporate digital learning in the educational structures, there must be coherent policies and well-articulated ones that facilitate ethical participation, cultural awareness, and critical consciousness. This view is in tandem with the bigger picture of equipping students, not only as

digital citizens, but as accountable world citizens.

On the same note, Nwabudike, Edeh, and Onwuzurike (2024) note that institutions of higher learning in Nigeria are undergoing a lot of difficulties in integrating citizenship education into their systems. These problems consist of inconsistencies in policies, a lack of institutional commitment, and change resistance by the stakeholders. The authors present the argument that attempts to introduce digital citizenship into higher education will hardly become unified and efficient without solid policy support. They propose a better coordinated strategy that will not separate institutional objectives and policies of the country regarding education.

Stephen and Olatoye (2025) discuss how to integrate digital literacy and cybersecurity education and highlight that ethical online behavior is an important aspect of safe participation online. In their research, they conclude that although most institutions realize the significance of digital literacy, the framework of the curriculum is unable to respond to the dynamics of digital risks that are changing very fast. Such problems like false information, phishing, data security breaches, and Internet fraud demand constant revision of the educational material and policies. This underscores the importance of responsive and flexible policy frameworks that will be able to adapt to arising digital challenges.

Ukonu and Warlimont (2025) also discuss the changing expectations of Generation Z learners since this generation requires interactive, technology-oriented, and learner-centred



educational experiences. Their research points to the fact that digital integration is a new essential feature of contemporary education. They, however, warn that there should be a corresponding technological awareness and critical thinking aspect that comes alongside technological advancement. In their absence, the students might not have the ability to navigate the digital world in a responsible way and this will have adverse consequences on individuals and institutions.

Furthermore, Joy, Olanrewaju, and Olabisi (2025) insist that critical thinking can help to overcome the problem of misinformation and encourage responsible digital interactions. They believe that the spread of fake news in online communities is a major challenge to the ability to make informed decisions and engage in democracy. Through critical thinking in the learning systems, universities will be able to empower students to question, analyze, and verify information before accepting or sharing it. This is more so in the Nigerian context where misinformation may have far-reaching social and political repercussions.

Chukwuemeka et al. (2025) insist on extensive policy frames that can promote the digital transformation of higher education in Nigeria. Their research also puts emphasis on the institutional policies that extend beyond the development of infrastructure to incorporate ethical principles, behavioral norms, and means of implementation. They suggest that to succeed with digital transformation, it is important to do it in a holistic approach that involves the use of technology, pedagogy, and policy.

Also, recent research, like the study by Darussalam et al. (2026), and Bal and Akcil (2024) focuses on the importance of digital education innovation in the creation of technologically literate societies. These studies prove that formalized digital citizenship programs could have a substantial positive influence on the online behaviors and ethical consciousness as well as the involvement of students in online learning. They further emphasize the need for sustainability in digital education programs, so that programs are constantly reviewed and changed to keep up with the times.

In general, the literature highlights the importance of incorporating digital citizenship education into university policies in order to tackle the new issues with digital engagement. It demonstrates that, although the issue of digital citizenship is increasingly becoming widely known, there is still a discrepancy between its theoretical understanding and the application of digital citizenship in the institutional context. The only way to bridge this gap is a conscious and policy-based process that would address the needs of the digital era to the educational goals.

INTEGRATING DIGITAL CITIZENSHIP INTO UNIVERSITY POLICY FRAMEWORKS

Digital citizenship should be implemented into policy frameworks at universities in a multi-dimensional, planned, and intentional way that reflects the institutional aims with realities of digital interactions among Generation Z students. Higher education institutions need to go beyond informal or disjointed efforts and institutionalize digital citizenship values into



formal codes of conduct, policies, and guidelines on teaching, and student services. This will make responsible online practices not optional but a key element of academic culture and institutional identity.

A policy-based approach will also bring uniformity across the faculties and departments whereby all students will be given equal standards of digital behaviour. Moreover, it establishes a system of accountability, tracking, and continuous improvement which is necessary in such a dynamic digital world. This integration revolves around the following important areas:

Responsible use of Social Media

The area of social media is one of the most important aspects of the lives of the Gen Z learners as it is the place where they communicate, collaborate, express themselves, and even learn. Quite popular platforms among students are WhatsApp, X (formerly Twitter), Instagram and Tik Tok where they share ideas, get information, and form social networks. However, the misuse of such sites can have dire consequences, including cyberbullying, harassment and misinformation, and damage to personal and organizational reputation.

University policy guidelines should hence put in place detailed guidelines on the responsible use of social media. These rules should include what is to be acceptable and what is not acceptable like the prohibition of hate speech and harassment, impersonation, and distribution of false information. The policies should also focus on respectful communication, cultural sensitivity, and inclusivity as the communities in the universities are diverse.

In addition, integration of social media in the institution's policies should be done by conducting workshops, seminars and orientation programs to show the students how to use social media responsibly. This entails having knowledge of digital footprints, managing online identity, and understanding the implications of online behavior in the long term. Notably, there should also be a clear description of the enforcement mechanisms, and disciplinary actions to be taken in case of violations. This way, the universities will be in a position to come up with a balanced environment that fosters freedom of expression and at the same time be accountable.

Online Ethics

Online ethics is one of the pillars of digital citizenship that is worried about the application of moral values in online relations. This is applied to the university setting to matters of academic honesty, intellectual property, decent treatment of others, and professionalism in the virtual world.

University policies should clearly talk about ethical conduct in the online world by incorporating it into the academic policies and codes of conduct amongst students. One such instance is that there must be an explicit policy on matters of plagiarism, unauthorized cooperation, and misuse of digital resources, which have to be regularly enforced. With the increase in the number of assignments and research that students are completing digitally, they must be taught how to reference and cite sources correctly, how to use online sources ethically, and how to avoid academic dishonesty.



Moreover, online ethics does not pertain to academic work or socialization. Students should be counseled to be respectful in online discussions, avoid the use of offensive words, and be empathetic in online communication. This can be improved by institutions through adding ethical training in the general studies courses or first-year experience programs.

Interestingly, when encouraging online ethics education should be values-based, rather than rule-based. The universities should be aware of inculcating the culture of integrity, responsibility, and respect, and ensuring that the students learn to internalize ethical values rather than obey rules. This is in accordance with the greater goals of higher education of building character and responsible citizens.

False Information and Critical Thinking.

One of the most burning issues during the digital age is the spread of misinformation and disinformation. The speed of spreading unchecked or false information is normally backed by social media and other web-based materials and can influence the opinion of the populace, scholarly discussions, and even the political stability of the nation. The importance of critical thinking of the content is essential to Gen Z learners who tend to employ digital sources as a source of information.

The university policy formations must thus focus on creating media literacy and critical thinking. This could be achieved through the inclusion of these competencies in the curriculum in all disciplines so that students would also be equipped to identify the credibility, accuracy, and reliability of sources of information. The importance of critical thinking

as emphasized by Joy et al. (2025) will assist the students to question assumptions and recognize the biases and make sound decisions in problematic digital settings.

The use of plausible academic databases, peer-reviewed sources, and fact-checking tools should also be promoted in the policies. Colleges can create digital literacy laboratories or integrate training courses, which inform students about how to check facts, detect fake news, and be aware of the workings of algorithms on the visibility of content.

Moreover, the institutions ought to encourage intellectual responsibility, where students would be responsible for the information they post. This involves deterring the sharing of unauthenticated information and promoting critical use of online media. Universities can contribute greatly to the fight against misinformation and the creation of informed digital citizens through integrating such practices in their policy frameworks.

Digital Rights and Responsibilities

A knowledge of digital rights and obligations also goes under the umbrella of digital citizenship, and these are essential for ensuring fairness, security, and inclusiveness in the virtual environment. Among the primary digital rights are: privacy, freedom of speech, access to information, and protection from online harms. However, these rights should be aligned with certain responsibilities to maintain a balance between rights and duties, enabling ethical and respectful use.

Furthermore, these rights need to be clearly defined in the university regulations and a system to protect these rights should be



established. For example, universities could develop data protection policies that safeguard the personal data of students and their use in compliance with the relevant legislation. Besides, students have to be informed about their rights concerning the use of their data, giving consent, and being digitally monitored on university systems.

Simultaneously, policy makers should make such responsibilities as respecting others' privacy, not accessing digital systems without authorization, and complying with institutional technology usage rules their focus. It means using university networks properly, preventing cybercrimes, and respecting intellectual property.

Besides that, universities are advised to set up procedures for resolving digital rights violations such as cyberbullying reporting, harassment reporting, or data breaches reporting. These should be done in an open, transparent, and responsive manner so that students feel safe and supported in the digital environment. By embedding digital rights and responsibilities into policy frameworks, universities can create a balanced digital environment that promotes freedom, accountability, and mutual respect. Besides enhancing digital engagement, it also prepares students to responsibly participate in the larger digital space of society and the world.

BENEFITS OF INTEGRATION

The overall benefits of making digital citizenship education part of university policy provisions are far-reaching, not just impacting the behavior of individual students and on an institutional level, but also the development of society. With their appropriate inclusion, these policies will

facilitate a careful environment that will enhance safe digital use and provide students with the necessary competence in the 21st century.

1. Enhanced Digital Literacy

Tackling digital citizenship education is by far one of the best strategies to make students not only more capable in digital environments but also responsible citizens. It equips them with essential skills such as fact-checking, online communication, being aware of cybersecurity, and the ethical use of digital tools (Apata et al. 2025). In the situation of the Nigerian university, where the adoption of digital is rapidly growing, improved digital literacy means that students will have an opportunity to use technological resources to promote their academic and professional growth. In addition, it empowers learners to become active and responsible contributors in digital spaces instead of passive consumers of the digital content (Ukonu & Warlimont, 2025).

2. Reduction in Cyber Misconduct

Well-defined and clearly articulated policy structures are very important in the mitigation of cyber misconduct such as cyberbullying, plagiarism, identity theft, and the propagation of malicious content. Universities can develop a culture of accountability and discipline through digital interactions by setting clear expectations of behavior and ensuring that there are repercussions to these behaviors (Stephen & Olatoye, 2025). Moreover, there are awareness campaigns and education programs incorporated in these policies so that students



can be aware of the repercussions of unethical online behavior, thus deterring bad behavior (Oludipe et al., 2025). This helps towards safer and respectful digital learning.

3. Improved Critical Thinking

Digital citizenship education promotes critical thinking because it challenges learners to question, analyze, and evaluate online information before accepting or disseminating it. It is especially significant when it comes to fighting misinformation and disinformation which are widespread in the realms of the Internet (Joy et al., 2025). By integrating policies in a systematic manner, universities are able to institutionalize media literacy programs that educate students to recognize credible sources, bias, and make effective decisions. Consequently, students are more critical and intellectually active, leading to improvement in their academic achievement and civic engagement (Bal and Akcil, 2024).

4. Promotion of Ethical Behavior

Practicing ethical aspects of digital interaction through embedding it in university policies will promote responsible digital interaction and moral growth in students. Honesty, respect, responsibility, and integrity are some of the values taught during digital citizenship education (Nwabudike et al., 2024). By reinforcing these values with institutional policies, students will be more prone to internalizing ethical values and using them cohesively in both online and offline settings. This not only minimizes unethical practices but also helps in producing a well-rounded graduate

who can become responsible in the workplace and in society (Darussalam et al., 2026).

5. Alignment with Global Standards

By incorporating digital citizenship in university policies, the higher education institutions in Nigeria can be in line with international best practices in digital education. With the continued globalization of higher education, universities have to fulfill global standards that concern digital competence, ethical activity, and information literacy (Chukwuemeka et al., 2025). Conformity to these standards improves the international competitiveness of Nigerian graduates and academic collaboration, research opportunities, and mobility. It also makes the Nigerian universities a progressive institution that can meet the needs of the digital age (Apata et al., 2025).

CHALLENGES AND ETHICAL CONSIDERATIONS

Although it has many positive sides, the introduction of digital citizenship education into the system of university policy is not without difficulties. These issues should be analyzed and discussed in order to have a successful and viable implementation.

1. Policy Gaps

Lack of well-formulated and broad policy frameworks that regulate digital citizenship in most Nigerian universities is one of the biggest challenges. The current policies have a tendency to concentrate on the technological infrastructure and fail to consider ethical, behavioral, and legal aspects of digital interaction (Chukwuemeka et al., 2025). This loophole causes variation in practice and ineffective application of digital norms of



conduct. To solve this problem, it is necessary to consider the creation of a policy with a specific focus on digital citizenship as a priority in the institutions (Nwabudike et al., 2024).

2. Technological Inequality

The technological inequality is another major obstacle to successful digital citizenship education implementation. Inequality in access to digital devices, quality of internet connectivity, and technological infrastructure restricts the capacity of certain students to be completely involved in digital learning settings (Stephen & Olatoye, 2025). Such a digital divide may increase educational inequalities and weaken the inclusiveness of policy efforts. To make certain that all students are able to enjoy the digital citizenship programs, therefore, universities have to implement fair practices, including offering subsidized access to digital learning materials and enhancing infrastructure (Apata et al., 2025).

3. Resistance to Change

Stakeholder resistance (faculty, administrators, and students) may act as a barrier to the effective implementation of digital citizenship into policy. This opposition is usually due to ignorance, a lack of training, or doubts regarding the applicability of digital citizenship education (Ukonu & Warlimont, 2025). To address this issue, there should be extensive capacity-building programs, involvement of stakeholders, and effective communication of the policy reforms' benefits. Higher education institutions also need to promote the culture of

innovation and flexibility to embrace change (Oludipe et al., 2025).

4. Privacy Concerns

The ethical dilemma of managing the necessity to monitor digital behavior and at the same time ensuring the protection of the privacy rights of students is a complicated one. Although surveillance tools can be used by universities to monitor misbehavior or compliance, the problem of data security, consent, and individual freedoms may be raised (Bal and Akcil, 2024). Institutions should thus have clear data governance policies which specify the collection and use and protection of data. Ethical implementation is vital in ensuring that the data protection regulations are adhered to and that the students trust them (Stephen & Olatoye, 2025).

5. Rapid Technological Changes

Technology development and implementation are challenges because of the fast-paced nature of the whole process. The rapid change in digital platforms, tools, and risks means that the policies will not be relevant and effective over time (Darussalam et al., 2026). Policy structures can become obsolete very fast, creating gaps in the need to manage new challenges like the new types of cyber threats, or misinformation strategies. To overcome this, universities need to be flexible and adaptable in their approaches to policy that enables them to review, update their policies, and constantly improve them (Chukwuemeka et al., 2025).

CASE STUDIES

To illustrate the practical application of implementing digital citizenship education as a part of university policy, the selected case



studies can prove to be of greater value. These instances can be used to show that specific programs within Nigerian higher education have led to better digital behavior, but also demonstrate the weaknesses of those initiatives that do not have a robust institutional policy.

Case Study 1: Digital Literacy Integration in Nigerian Universities

Research by Chukwuemeka et al. (2025) indicates that some Nigerian universities have gone a notch higher to incorporate digital literacy programs in their education system. Such programs usually involve learning how to use learning management systems, online research tools, and online collaboration platforms. As a result, students are capable of demonstrating greater involvement in academic processes, deeper engagement with online learning environments, and an increased recognition of the ethical issues surrounding digital use. Furthermore, these initiatives have also contributed to the development of fundamental information literacy skills, responsible communication, and a basic awareness of cybersecurity. Students exposed to these programs are familiar with navigating the online world, identifying credible sources, and avoiding dishonest behaviors like plagiarism and misinformation sharing.

However, a major weakness in this scenario is the lack of comprehensive policy support. In most institutions, digital literacy programs are run as separate programs rather than being integrated within a policy framework. This lack of institution-wide implementation leads to irregular delivery, limited reach, and challenges

in achieving sustained impact. Without formal policies to guide implementation, monitor outcomes, and set standards, these programs may simply end up as a one-day event or an ineffective measure. This situation emphasizes the necessity to incorporate digital literacy into university policies so as to ensure continuity, responsibility, and congruence with institutional objectives.

Case Study 2: Cybersecurity Education Initiatives

The study by Stephen and Olatoye (2025) dealt with the effects of introducing cybersecurity education into the school curriculum, and it also affects education after high school. They find that students who get trained to be more conscious of online dangers (like phishing, hacking, identity theft, and data breaches) through organized training on cybersecurity become more conscious of such dangers.

Programs of this kind also promote safer online behaviors, like creating strong passwords, safe browsing, and being very careful when sharing personal information. When students learn what online threats are, they get the best help in protecting themselves and others in the digital environment. This is why a safer and more secure environment for learning, and also for communication, comes about, especially in universities that have a large number of digital platforms for the purposes of learning and communicating.

These are the results that they favor, but the paper points out that there should be policy implementations to ensure that cybersecurity education is not thereby seen as a kind of curricular marginal or a side issue. Without



formal policies that mandate its required attention, cybersecurity training may unintentionally be overlooked or completely not done. Moreover, a lack of policy frameworks will hamper the capacity of institutions to implement compliance with cybersecurity policies and respond efficiently to cybersecurity breaches. This case shows that although educational programs are effective, they are greatly improved in terms of effectiveness when institutional policies take the form of structure, resources, and accountability.

Case Study 3: Global Citizenship Education Programs

Oludipe et al. (2025) emphasize the importance of global citizenship education programs to increase ethical and responsible digital behaviours in students. Participation in physical and cyberspace, respect towards diversity, cultural awareness, social responsibility, and ethical engagement are the values that these programs promote.

Students in a school setting with global citizenship education as part of both academic and extracurricular programs have been shown to have a greater degree of ethical awareness and a greater tendency to adhere to responsible digital practices. They will be better inclined to conduct a respectful online communication, be critical about information, and contemplate the social ramifications of their online activity in general.

Moreover, such programs create a feeling of interconnectivity on a global scale and persuade students to identify themselves as members of a global digital community. This line of thinking is most appropriate when identifying how to

resolve issues related to misinformation, hate speech online, and digital inequality. Teaching global citizenship develops well-rounded individuals, through empathy and critical thinking enhancement, and can guide people through the complex digital world.

However, the efficacy of such programs, as was the case with the previous one, depends to a large extent on the availability of corresponding policy frameworks. Institutions that have global citizenship education as part of their policies can more easily sustain these programs, allocate resources, and measure outcomes. On the contrary, if such programs are not backed by a policy, their impact may be quite limited and it might even be difficult to guarantee their long-term existence.

Synthesis of Case Studies

Together, these case studies reveal that although digital literacy, cybersecurity education, and global citizenship initiatives hold a huge potential to enhance digital skills and ethical conduct of students, their effectiveness in the long-term can be largely determined by policy support. Programs that are not implemented in formal structures are mostly prone to issues pertaining to sustainability, consistency, and scalability (Chukwuemeka et al., 2025).

Instead, policy-supported initiatives offer a formal means that guarantees institutional goals, can aid resource distribution, and establish systems to monitor and assess. They increase accountability as well since they specify roles, responsibilities, and anticipated outcomes (Apata et al., 2025).

Thus, the cases support the idea that digital citizenship education should be part of the



policy frameworks of universities to ensure a long-term impact. Institutionalizing these initiatives, the universities in Nigeria can shift from individual actions of isolated intervention to global strategies that would effectively equip Gen Z learners to become responsible and ethical contributors in digital society.

FUTURE TRENDS AND OPPORTUNITIES

1. Policy-Driven Digital Education

Universities will increasingly adopt formal policies integrating digital citizenship into curricula.

2. AI and Digital Ethics

Emerging technologies will require updated ethical guidelines for digital engagement.

3. Collaborative Policy Development

Institutions will partner with government and private sectors to develop comprehensive frameworks.

4. Focus on Lifelong Digital Learning

Policies will extend beyond formal education to support continuous digital skill development.

5. Enhanced Media Literacy Programs

Universities will prioritize combating misinformation through structured education initiatives.

CONCLUSION

It is crucial to get digital citizenship education mixed up with the university's policy frameworks if we really want to take generations

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of learners in Nigeria to a digitally responsible society. Evidence from this paper shows that social media use, online ethics, misinformation, and digital rights are the key issues to focus on. According to the study, even though digital tools are almost universally used in Nigerian universities, their policy frameworks still largely ignore the ethical and behavioral dimensions. By making these digital citizenship elements part of their formal rules, universities will upgrade their digital literacy programs as well as foster students' ethical involvement and critical thinking. On the other hand, to realize this goal, it is also necessary to allocate the resources to deal with various issues including policy deficits, technological inequality, and change aversion. Also, universities should be considering the implementation of plans that are very much in line with the general principles, such as stakeholder engagement, nonstop policy review, and exploring ways to step up digital infrastructure, among others.

To sum up, the process of weaving digital citizenship education into university policies will undoubtedly produce a generation of digital users who are not only more mature, better educated, and more ethical but also capable of making a significant contribution to the sustainable development and global competitiveness of Nigeria's higher education sector.

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