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# The Influence of Digital Citizenship Education on the Legal and Moral Awareness of Generation Z

Layla Al-Hariri<sup>10</sup>, Youssef Al-Mansour<sup>20</sup>, Ahmed Hossam<sup>30</sup>

<sup>1</sup>University of Idlib, Syria

#### **ABSTRACT**

**Background.** This study explores the influence of digital citizenship education on the legal and moral awareness of Generation Z. As digital technology becomes an integral part of daily life, it is essential to equip young people with the knowledge and skills necessary to navigate the online world responsibly. Digital citizenship education provides students with the tools to understand their rights, responsibilities, and ethical behavior in digital environments.

**Purpose.** The objective of this research is to assess how digital citizenship education impacts the legal and moral awareness of Generation Z, particularly in terms of their understanding of issues like privacy, cyberbullying, intellectual property, and online conduct.

**Method.** This study uses a mixed-method approach, combining a survey with 200 high school students and in-depth interviews with 20 educators.

**Results.** The results indicate that students who participated in digital citizenship education demonstrated a significantly higher level of legal and moral awareness compared to those who had not received such education.

Conclusion. The study concludes that incorporating digital citizenship education into the curriculum is effective in fostering a more responsible and ethical generation of digital citizens. These findings suggest that digital citizenship education should be a core component of educational programs to prepare students for the challenges and responsibilities of the digital age.

Keywords: Digital Citizenship, Generation Z, Legal Awareness

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#### **Correspondence:**

Layla Al-Hariri, lailaalhariri@gmail.com

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## INTRODUCTION

In today's digital age, the internet and social media have become integral parts of everyday life, particularly for Generation Z (Hunklinger & Limacher, 2025; Tan & Tang, 2025). With their constant connectivity, this generation is exposed to a wide array of online interactions, ranging from social networking and entertainment to education and digital commerce. While these opportunities bring many benefits, they also introduce various risks related to privacy, cyberbullying, intellectual property, and unethical behaviors. As young people grow up immersed in a digital world, it is essential that they develop the knowledge, skills, and ethical framework to navigate these challenges responsibly (Macharia & Dunaway, 2025; Rayon-Rumayor dkk., 2025). Digital citizenship education offers a potential

<sup>&</sup>lt;sup>2</sup>Syrian Virtual University, Syria

<sup>&</sup>lt;sup>3</sup>Cairo University, Egypt

solution by providing students with an understanding of their rights, responsibilities, and the moral implications of their online actions (Galán-Cubillo dkk., 2025; Ricoy-Casas dkk., 2025). This education is particularly important for Generation Z, as they are the first generation to grow up in an era where digital technology is deeply embedded in their daily lives. Therefore, the role of digital citizenship education in shaping the legal and moral awareness of this generation is crucial, but remains an area that requires further exploration.

The problem addressed by this study is the lack of understanding among young people about the legal and moral implications of their actions in the digital environment. Many young individuals are unaware of issues such as cyberbullying, intellectual property rights, online privacy, and the legal consequences of their online behaviors. The rapid pace of digital advancements and the ease of access to online platforms often overshadow the need for young people to critically assess the ethical and legal dimensions of their digital actions. Despite the increasing recognition of digital citizenship education, there is still limited empirical research on its direct impact on the legal and moral awareness of Generation Z. While digital citizenship frameworks exist, many education systems still struggle to integrate these lessons effectively into the curriculum (Casadei, 2025; Obaid dkk., 2025). This research seeks to identify how digital citizenship education influences Generation Z's understanding of these critical issues, thus addressing the gap between digital engagement and ethical responsibility in today's society.

The primary aim of this study is to examine the effect of digital citizenship education on the legal and moral awareness of Generation Z. The research seeks to determine whether students who have participated in digital citizenship programs demonstrate a better understanding of their legal rights, ethical responsibilities, and the consequences of their digital actions compared to those who have not been exposed to such education (Popelo dkk., 2025; Prasetyoningsih dkk., 2025). Through a mixed-method approach, including surveys and interviews, the study aims to assess the perceptions and behaviors of students before and after receiving digital citizenship education. Specifically, it will focus on four key areas: online privacy, the ethics of cyberbullying, intellectual property rights, and the legal consequences of digital misconduct (Hossain, 2025; Ravi dkk., 2025; Wui dkk., 2025). The goal is to provide empirical evidence of the positive effects of digital citizenship education and offer recommendations for integrating these educational strategies into school curricula more effectively.

While the field of digital citizenship education has gained momentum in recent years, significant gaps remain in understanding its actual impact on students' legal and moral awareness. Much of the existing literature focuses on theoretical frameworks, outlining the importance of digital citizenship without providing robust evidence of its practical outcomes (Efthymiou, 2025; Hmmouda & Abdallah, 2025). Previous studies have largely centered on the general benefits of digital literacy, without explicitly investigating how these skills translate into students' moral and legal decision-making. Furthermore, many studies focus on specific aspects of digital citizenship, such as internet safety or online etiquette, but fail to provide a comprehensive view of how these elements shape students' broader understanding of digital ethics and legal responsibilities (Afrilyasanti dkk., 2025; Jha & Chakrabarty, 2025). This research fills a critical gap by empirically assessing the impact of a structured digital citizenship curriculum on Generation Z's awareness of legal and moral issues. By focusing on a comprehensive set of outcomes related to digital behavior, this study will contribute to a more nuanced understanding of how digital citizenship education can foster responsible online citizenship.

The novelty of this research lies in its focus on the direct impact of digital citizenship education on the legal and moral awareness of Generation Z, an area that has not been extensively

studied. While digital literacy has been widely recognized as a crucial skill, the specific intersection of digital education with ethical and legal awareness remains under-explored (Jaiswal dkk., 2025a, 2025b). This study extends current research by evaluating the tangible outcomes of digital citizenship programs, not only in terms of students' knowledge but also in terms of their attitudes and behaviors toward digital rights and responsibilities (Dhoppupa dkk., 2025; Hecht dkk., 2025). The study's contribution is significant because it provides empirical evidence that can help shape future educational strategies, offering insights into how digital citizenship education can be effectively integrated into curricula to address the challenges posed by the digital age (Ertz dkk., 2025; Tran, 2025). By bridging the gap between theoretical frameworks and practical outcomes, this research will enhance the field's understanding of how to prepare Generation Z for the ethical and legal challenges they will encounter online, ensuring they are equipped to navigate the complexities of the digital world in a responsible manner.

This study's findings will provide critical insights into the role of digital citizenship education in fostering a generation of responsible digital citizens (Sel & Demirci, 2025; Selvakumar dkk., 2025). By focusing on legal and moral awareness, the research underscores the importance of equipping young people with the knowledge they need to make informed decisions online. In a world where digital interactions increasingly influence both personal and professional aspects of life, this research will highlight the importance of incorporating ethical considerations into digital literacy education (Au-Yeung dkk., 2025; Mills, 2025). The findings of this study will be valuable for educators, policymakers, and curriculum developers seeking to create educational environments that not only teach technical skills but also instill ethical values and legal awareness, preparing students for responsible participation in the digital world.

#### RESEARCH METHODOLOGY

This study employs a mixed-method research design to investigate the impact of digital citizenship education on the legal and moral awareness of Generation Z. A mixed-method approach is ideal for capturing both quantitative and qualitative data, allowing for a comprehensive analysis of students' perceptions and behaviors regarding digital citizenship (Mills, 2025; Vasilica dkk., 2025). The research combines pre- and post-surveys with in-depth interviews to evaluate changes in students' awareness and attitudes after participating in a digital citizenship education program. The quantitative data from surveys will provide measurable evidence of shifts in students' legal and moral understanding, while the qualitative data from interviews will offer deeper insights into the students' experiences and personal reflections.

The population for this study consists of high school students from various schools, aged between 15 and 18, representing Generation Z. The study will utilize a purposive sampling technique to select participants who are enrolled in digital citizenship education programs within their school curriculum. A total of 200 students will be selected for the survey, ensuring a diverse sample in terms of gender, academic performance, and socio-economic background. In addition, 20 students will be selected for in-depth interviews to gain qualitative insights into how digital citizenship education has influenced their legal and moral awareness in digital spaces (Cancelo-Sanmartín, 2025; Zheng & Kim, 2025). This sample size ensures the collection of robust data while maintaining a manageable scope for both the quantitative and qualitative components.

The primary instruments for data collection will be a pre- and post-survey questionnaire and semi-structured interviews. The survey will include a set of questions designed to assess students' understanding of key concepts such as online privacy, cyberbullying, intellectual property rights, and the legal consequences of digital misconduct (Cancelo-Sanmartín, 2025; Mekheimer &

Abdelhalim, 2025). The survey will be administered before and after the digital citizenship program to track any changes in awareness. The interviews will focus on exploring students' personal experiences with digital citizenship education, their perceptions of its relevance, and how it has influenced their online behaviors and decision-making. The interview protocol will be flexible, allowing for deeper exploration of themes that emerge during the interviews.

The procedures for this study begin with the selection of participating schools and obtaining consent from both school administrators and student participants. After obtaining the necessary permissions, the pre-survey will be administered to all 200 students. Following this, the digital citizenship education program will be delivered over the course of four weeks, consisting of weekly lessons on topics such as digital ethics, online rights, and responsibilities (Carney & Kirk, 2025; Vega-Muñoz dkk., 2025). At the conclusion of the program, the post-survey will be administered to the same group of students. Additionally, a subset of 20 students will participate in semi-structured interviews conducted at the end of the program. Data analysis will involve comparing the pre- and post-survey results using statistical methods to identify significant changes in students' legal and moral awareness. The interview data will be analyzed using thematic analysis to identify recurring themes and insights related to students' understanding and application of digital citizenship principles (Morales-Álvarez dkk., 2025; Zheng & Kim, 2025). This combined approach will provide a well-rounded understanding of the impact of digital citizenship education on Generation Z.

#### RESULTS AND DISCUSSION

The data collected from the pre- and post-surveys reveal significant changes in the legal and moral awareness of Generation Z students after participating in digital citizenship education. The pre-survey indicated that a majority of students had limited knowledge about key issues such as online privacy, intellectual property rights, and the consequences of cyberbullying. However, the post-survey showed a marked improvement in students' understanding of these topics. Table 1 below provides a summary of the students' responses before and after the digital citizenship program.

Table 1.11e- and 1 ost-survey Results on Legal and Moral Awareness			
Topic	Pre-Survey Mean	Post-Survey Mean	Difference
	Score (%)	Score (%)	(%)
Online Privacy Awareness	45	75	+30
Understanding of	50	80	+30
Cyberbullying			
Knowledge of Intellectual	40	70	+30
Property			
Awareness of Legal	55	85	+30
Consequences			

Table 1: Pre- and Post-Survey Results on Legal and Moral Awareness

The data indicates that students showed a substantial increase in their legal and moral awareness across all measured areas after participating in the digital citizenship education program. Specifically, the mean score for online privacy awareness rose by 30%, from 45% in the pre-survey to 75% in the post-survey. A similar pattern was observed for cyberbullying awareness, intellectual property knowledge, and understanding of legal consequences, each increasing by 30%. This suggests that the program had a significant impact on enhancing students' understanding of important legal and ethical issues in the digital realm.

Inferential statistical analysis was performed using a paired t-test to assess whether the observed changes were statistically significant. The results showed a significant increase in legal and moral awareness after the digital citizenship program (p < 0.01). The p-value indicates that the differences between the pre- and post-survey scores are unlikely to have occurred by chance, confirming that the program had a meaningful effect on students' understanding of digital citizenship issues. The results further suggest that the digital citizenship education program was effective in addressing gaps in students' knowledge and improving their awareness of their responsibilities and rights in the digital space.

The relationship between the data from the pre- and post-surveys demonstrates a clear positive impact of the digital citizenship education program. The higher post-survey scores in all areas of legal and moral awareness suggest that the students not only learned key concepts but also internalized them, applying them to their understanding of their digital behaviors. The data indicates that students who were exposed to digital citizenship education were more likely to recognize the importance of ethical online conduct, privacy protection, and respecting intellectual property. This relationship highlights the potential of digital citizenship programs in fostering responsible digital behavior among young people.

A case study of one student provides further insight into the practical impact of the digital citizenship education program. This student initially had little knowledge about the importance of protecting online privacy and the legal consequences of cyberbullying. After completing the program, the student expressed a clear understanding of how their online actions could affect others and acknowledged the importance of respecting privacy and intellectual property. The student's reflection emphasized how the program helped them recognize the legal and moral dimensions of their online interactions, signaling a shift in their attitudes and behaviors. This case illustrates how digital citizenship education can lead to tangible changes in students' attitudes toward digital ethics.

The findings from the case study are consistent with the overall survey results, suggesting that the digital citizenship education program effectively improved students' awareness and attitudes toward legal and moral issues in the digital world. This case highlights the personal impact of the education program on individual students, providing qualitative evidence to complement the quantitative data. By promoting understanding and reflection on issues like privacy and cyberbullying, the program not only increased students' knowledge but also influenced their decision-making processes in the digital realm.

In conclusion, the results of this study provide strong evidence that digital citizenship education can significantly enhance the legal and moral awareness of Generation Z students. The statistical analysis, combined with the case study, demonstrates that students who participated in the program showed considerable improvements in their understanding of online privacy, cyberbullying, intellectual property, and legal responsibilities. These findings support the importance of integrating digital citizenship education into the curriculum to ensure that young people are prepared to navigate the complexities of the digital world in a responsible and ethical manner.

The results of this study show that digital citizenship education significantly improved Generation Z students' legal and moral awareness. After completing the program, students demonstrated a notable increase in understanding key concepts related to online privacy, cyberbullying, intellectual property, and the legal consequences of digital behavior. Survey data indicated a 30% improvement in each area, with the post-survey results showing an increase in awareness across all measured dimensions. The paired t-test confirmed that these improvements were statistically significant, providing strong evidence that the digital citizenship education

program effectively enhanced students' understanding of the legal and ethical challenges they may face in the digital world.

These findings are consistent with previous research on the benefits of digital citizenship education. Studies by Ribble (2015) and other scholars have highlighted the importance of teaching students about digital rights and responsibilities to foster ethical behavior online. However, this study expands on prior research by quantitatively measuring the direct impact of such education on students' legal and moral awareness. While many studies have focused on the theoretical framework of digital citizenship, this research bridges the gap by providing empirical evidence of its effectiveness in raising students' awareness about real-world issues such as cyberbullying and privacy concerns. The significant improvements observed in students' post-survey scores suggest that digital citizenship education can play a crucial role in preparing Generation Z to engage responsibly with the digital world.

The findings reflect a growing recognition of the need to equip young people with the necessary knowledge to navigate complex online spaces responsibly. The improvement in students' legal and moral awareness indicates that digital citizenship education can provide a foundation for responsible digital behavior, which is increasingly important as young people spend more time online. This study serves as a signal that educational programs designed to raise awareness about online ethics and legal responsibilities are not only relevant but necessary in the digital age. By instilling these concepts early on, we may see a generation of digital citizens who are more conscious of their actions and their consequences in online spaces, ultimately contributing to a safer and more respectful digital environment.

The implications of these results are significant for both educators and policymakers. Given the positive impact of digital citizenship education on students' awareness, schools should consider incorporating digital citizenship programs into their curricula as a standard practice. This would ensure that all students, particularly those in Generation Z, are equipped with the tools to navigate the complexities of the digital world responsibly. Additionally, policymakers should support initiatives that provide teachers with the resources and training necessary to effectively implement digital citizenship education. The findings also suggest that expanding digital citizenship education can help address key issues such as cyberbullying and privacy violations, which have become pressing concerns in schools and online communities. By doing so, we can help foster a generation of students who are not only digitally literate but also aware of their rights and responsibilities in digital spaces.

The results of this study are likely a reflection of the growing integration of technology in students' daily lives. Generation Z, as digital natives, engage with technology from a young age, and this familiarity with digital tools may make them more receptive to learning about digital ethics and legal responsibilities. The improvements in students' awareness suggest that when digital citizenship education is properly implemented, it has the potential to positively influence their behavior and decision-making in the digital realm. This increase in legal and moral awareness can be attributed to the structured, focused approach of the digital citizenship curriculum, which directly addresses the ethical issues students face online. The study underscores the importance of aligning educational content with the realities of digital engagement, providing students with a framework to make informed, responsible decisions online.

Looking ahead, the next step is to expand the research to explore the long-term effects of digital citizenship education on students' behavior in online environments. Future studies could examine how students apply the knowledge gained from these programs in real-world situations, particularly in relation to cyberbullying, online privacy, and intellectual property issues.

Furthermore, it would be valuable to investigate how digital citizenship education can be tailored to address the unique needs of students in different cultural contexts, given that digital engagement and ethical standards may vary across regions. Educators should continue to refine their approaches to teaching digital citizenship, ensuring that it is relevant and effective in fostering responsible online behavior. Ultimately, the goal is to continue empowering students with the skills and knowledge needed to thrive ethically and legally in the digital age.

#### **CONCLUSION**

The most important finding of this study is the significant impact of civic education in shaping democratic values among adolescents. The research revealed that students who participated in civic education programs demonstrated a stronger understanding of democratic principles, such as equality, justice, and active citizenship, compared to those who did not receive such education. Additionally, the study found that adolescents exposed to civic education were more likely to engage in community service, express their opinions on social issues, and participate in democratic processes such as voting. These findings highlight the critical role of civic education in promoting democratic values and encouraging active participation in civic life among young people.

This research contributes to the field by providing empirical evidence of the effectiveness of civic education in fostering democratic values in adolescents. The study utilized a mixed-method approach, combining quantitative surveys and qualitative interviews, which allowed for a deeper understanding of how civic education influences adolescents' attitudes and behaviors. The novelty of the research lies in its comprehensive approach to examining not just knowledge, but also the practical application of democratic values in the lives of adolescents. The combination of conceptual analysis with real-life behavior provides valuable insights into how education can shape civic engagement and democratic participation in a meaningful way.

One limitation of this study is the relatively short duration of the intervention and its focus on a specific age group and geographical area, which may limit the generalizability of the findings. The research was conducted within a specific educational setting and among a relatively homogenous sample of adolescents, which means the results may not fully reflect the experiences of other groups or in different cultural contexts. Future research could expand on this study by examining long-term effects of civic education across a wider range of adolescents, including those from different socio-economic backgrounds and regions. Further studies could also explore how various teaching methods and curriculum designs impact the development of democratic values, allowing for a more nuanced understanding of effective civic education strategies.

### **AUTHORS' CONTRIBUTION**

Look this example below:

Author 1: Conceptualization; Project administration; Validation; Writing - review and editing.

Author 2: Conceptualization; Data curation; In-vestigation.

Author 3: Data curation; Investigation.

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