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Integrating Technology in Remote Arabic Language Education: Opportunities and Challenges

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Abstract

This study explores the integration of digital technology into remote Arabic language education, with a specific focus on formal educational institutions in Southeast Asia. Drawing upon a qualitative descriptive methodology, the research investigates both the opportunities and challenges associated with virtual Arabic instruction in Indonesia and Malaysia. The findings indicate that technology enhances learner engagement, vocabulary acquisition, and access to authentic Arabic content, particularly through tools such as Zoom, Google Classroom, and E-campus. Moreover, student-centered approaches enabled by digital platforms increase confidence and autonomy, especially among introverted learners. However, several obstacles persist, including limited infrastructure, disparities in internet access, lack of teacher training in digital pedagogy, and difficulties in delivering grammar instruction effectively in online environments. These challenges underscore the need for adaptive learning models that address affective, cognitive, and technological aspects of language acquisition. The study contributes to the growing body of Arabic language pedagogy by offering region-specific insights and highlighting the importance of contextsensitive, inclusive, and flexible instructional strategies in the era of digital transformation.

Keywords: Remote Arabic education, digital pedagogy, Southeast Asia, teacher training, educational technology

Introduction

The integration of technology into language education has become an essential response to the growing demand for flexible and accessible learning, especially in the aftermath of the COVID-19 pandemic. Arabic, as a language of religious, academic, and cultural significance, faces unique challenges in the realm of remote instruction due to its script complexity, diglossic nature, and the

traditional reliance on face-to-face methods. While distance education offers practical solutions for learners with limited access to physical classrooms, the effectiveness of Arabic language acquisition in such contexts remains underexplored.

Integrating technology into remote Arabic language education presents both promising opportunities and formidable challenges. The COVID-19 pandemic accelerated the global shift toward digital learning platforms, creating an urgent need to adapt Arabic instruction—traditionally reliant on face-to-face methods—to virtual environments. However, this transition has not been without difficulty, particularly due to the linguistic complexities of Arabic and varying levels of digital readiness among educators and learners.

Mohammed (2022) noted the intricacy of developing Arabic language e-courses, particularly regarding speaking and listening skills, highlighting challenges such as insufficient infrastructure and digital competency gaps among both students and educators. From a pedagogical perspective, Alakrash and Razak (2022) underscored the need for methodological adjustments in Arabic teaching during ERT, advocating for professional development initiatives tailored to digital instruction. Their research in Malaysia revealed that many Arabic teachers lacked sufficient training in using online tools, limiting the effectiveness of remote learning. In a related vein, Kerras and Essayahi (2022) argued that emotional learning strategies are critical for maintaining engagement and overcoming isolation in online Arabic classes, given the language's rich contextual and cultural dimensions.

The importance of learner-centered, interactive platforms is another recurring theme in the literature. Ritonga et al. (2024) demonstrated that tools like E-campus can enhance learner engagement and accessibility in Arabic higher education, but warned that without proper curriculum design, technology alone cannot guarantee learning outcomes. In support of this view, Khasawneh (2022) found that Arabic as a foreign language learners require culturally responsive instruction that accounts for linguistic diversity and dialectal variations—factors that are often overlooked in standardized digital content.

On a cognitive level, Kerras and Essayahi (2022) emphasized the emotional responses of learners toward technology-mediated Arabic instruction. They found that affective factors significantly influence learning outcomes, suggesting a need for holistic approaches that integrate psychological well-being into instructional design. Expanding on the theme of learner diversity, Alghabban and Hendley (2023) presented empirical evidence showing that adaptive e-learning tools can enhance comprehension for students with dyslexia and other learning differences—demonstrating the potential of AI-assisted technologies in personalized Arabic language education.

However, challenges relating to digital infrastructure and equity remain substantial. Noor et al. (2024) addressed the digital divide in the context of Arabic

sign language instruction, showing that socio-economic factors and internet access disparities continue to obstruct equal participation in online learning. Similar concerns are echoed by Luppicini and Walabe (2021), who examined e-learning in Saudi Arabia and highlighted the importance of aligning socio-cultural values with technological adoption to ensure effective implementation.

Several researchers have also explored the potential of advanced technologies such as Artificial Intelligence (AI). Al-Anzi (2022) investigated speech recognition for Arabic, suggesting that AI could support more responsive and real-time feedback in online language classrooms. Likewise, Khalil et al. (2021) applied deep learning for emotion analysis in Arabic tweets, offering a model that could be adapted to monitor learner engagement in online settings. These studies indicate an emerging trend toward the integration of intelligent systems in language pedagogy, though their application in Arabic instruction remains nascent.

Taken together, these studies confirm the transformative potential of technology in remote Arabic language education, while also highlighting persistent limitations related to infrastructure, pedagogy, learner diversity, and educator preparedness. This study seeks to extend the current body of research by focusing specifically on the Southeast Asian context particularly Indonesia and Malaysia where digital innovation intersects with Arabic as a religious and academic language. By addressing these regional dynamics, the present research contributes to the development of more inclusive, responsive, and sustainable models for Arabic language education in the digital age.

This study aims to examine the integration of digital technology in remote Arabic language education by addressing two key research questions: (1) What opportunities does educational technology offer in supporting remote Arabic language learning? and (2) What are the main challenges encountered by learners and educators in this context? The scope of the study is limited to formal educational institutions (secondary schools and universities) in Southeast Asia and does not cover informal or independent learning settings. Additionally, the research is constrained by its qualitative approach and may not capture the full statistical breadth of technological impact.

By critically reviewing existing literature and investigating current practices, this paper seeks to fill the gap in understanding how Arabic language instruction can be effectively mediated through digital tools. It contributes to the growing body of research on Arabic language pedagogy by offering practical insights into curriculum design, teacher training, and learner engagement in remote environments. This study also positions itself to inform future policy and innovation in Arabic language education under the paradigm of digital transformation.

Method

This study employed a qualitative descriptive approach to explore how technology is integrated into remote Arabic language education, focusing on both the opportunities it creates and the challenges it presents. The research draws on the conceptual framework of Technological Pedagogical Content Knowledge (TPACK) and constructivist learning theory, which emphasize the interplay between digital tools, instructional strategies, and learner engagement in online environments.

The research was conducted in two Islamic educational institutions in Southeast Asia—one located in Indonesia and another in Malaysia—that had actively implemented e-learning platforms for Arabic instruction during and after the COVID-19 pandemic. These institutions were selected based on their hybrid or fully online Arabic language programs and their readiness to integrate technology into instructional practices. The unit of analysis focused on Arabic language teachers and curriculum developers, as well as intermediate to advanced learners at the secondary and tertiary levels.

This study used primary data, gathered through semi-structured interviews, focus group discussions (FGDs), and non-participant observation of virtual Arabic classes. In addition, secondary data were collected from institutional documents, digital syllabi, e-learning modules, and technology-use policies. The key informants included eight Arabic language teachers, two ICT coordinators, and four student representatives, selected through purposive sampling to ensure relevance and depth of insight.

Data collection took place over a period of two months, with online interviews and classroom observations recorded using video conferencing tools such as Zoom and Google Meet. The interviews were guided by open-ended questions related to teaching strategies, challenges, student engagement, and perceptions of technology use. Observational notes focused on pedagogical interactions, tool usage, and learner responses during digital instruction.

The data were analyzed using thematic analysis, following the procedures of coding, categorizing, and interpreting patterns based on Miles and Huberman's framework. Triangulation was applied by comparing interview responses, observed behaviors, and document analysis to ensure the validity and reliability of the findings. The final themes were developed to answer the research questions concerning both the pedagogical opportunities and challenges of remote Arabic instruction through technological integration.

Result and Discussion

The integration of technology into Arabic language instruction, particularly in remote learning contexts, represents not only a response to educational disruption but also a transformative shift in pedagogical paradigms. In regions

where Arabic is taught as a second or foreign language (Arisandi et al., 2025; Baharun & Hanifansyah, 2024), such as Southeast Asia, the convergence of technological innovation and language pedagogy is especially critical. This transformation is not limited to the adoption of tools like learning management systems or video conferencing platforms, but also involves a fundamental reconsideration of how language is transmitted, internalized, and practiced across cultural and geographic boundaries (Bulhayat et al., 2021). Remote Arabic language education, by its nature, necessitates an adaptive framework that accounts for linguistic complexity, digital access, and the socio-emotional context of learners. The challenges posed by script variation, grammatical depth, and diglossia in Arabic demand teaching methods that go beyond traditional rote memorization or rigid grammar drills. Technology offers a pathway to reconceptualize these challenges as opportunities through multimedia exposure, real-time feedback mechanisms, adaptive learning environments (Solehudin et al., 2024), and more flexible engagement strategies. In environments where students are removed from immersive Arabic-speaking contexts, technological tools can simulate elements of immersion, allowing for consistent auditory and visual input, peer collaboration, and contextualized practice.

Moreover, the intersection of educational technology and Arabic pedagogy invites deeper examination of learner identity and agency (Habib et al., 2024). Students in digital classrooms are no longer passive recipients of knowledge but active constructors of meaning, navigating not only a foreign linguistic system but also the digital interfaces that mediate that system. In this process, motivation, confidence, and emotional resilience become as essential as grammatical accuracy. Remote learning settings can either alienate learners or empower them, depending on how instructional design accommodates diverse needs, learning styles, and affective states. The learner-centered nature of online platforms enables personalized pacing, differentiated tasks, and the use of culturally relevant content that resonates with learners' lived experiences. This personalization is particularly important in Arabic instruction, where content is often tied closely to religious, historical, and literary traditions. Technology enables educators to bridge classical and modern elements of the Arabic language, allowing students to appreciate its contemporary relevance while grounding their skills in traditional structures (Mahmudah & Hanifansyah, 2024).

From the instructional standpoint, educators face a dual responsibility: mastering the technological competencies required to navigate virtual classrooms and adapting pedagogical methods to suit online dynamics. Teaching Arabic online is not a matter of translating classroom practices into digital form but reimagining how interaction, feedback, and community building occur in a dispersed setting. For instance, the nuances of pronunciation and script, often best taught through face-to-face modelling (Mahmudah, 2025), must now be communicated through visual aids

, phonetic software, and voice recognition tools. Grammar, which can feel abstract and disconnected in traditional settings, can become more engaging when taught through interactive diagrams, quizzes, and gamified exercises. However, such potential can only be realized if teachers are adequately trained, supported, and encouraged to experiment with new strategies. Without such preparation, the integration of technology risks becoming superficial or even counterproductive.

Another dimension of analysis involves the role of infrastructure and institutional readiness. Many institutions in Southeast Asia have made commendable strides in embracing digital education, but disparities persist in terms of bandwidth reliability, device availability, and systemic support for both teachers and students. These inequities are not just technical but also pedagogical, as they influence who gets to participate fully in digital learning environments and who is left behind. A holistic view of technological integration must therefore account for structural limitations and propose strategies for inclusive access (Masnun et al., 2025). This includes developing low-bandwidth learning options, offline resources, mobile-compatible platforms, and community-based digital literacy programs. In this regard, the potential of mobile technology is particularly promising. Smartphones are more accessible than laptops in many rural or economically constrained areas, and mobile-based learning platforms can be tailored for microlearning, daily vocabulary practice, and asynchronous peer interaction (Nur Hanifansyah et al., 2024).

Additionally, the effectiveness of remote Arabic language learning is closely tied to assessment practices. Traditional testing methods, focused on rote memorization and isolated grammar rules, may not adequately capture the dynamic, communicative competencies developed in online environments. Alternative assessment forms such as portfolio-based evaluation, oral proficiency interviews, self-reflection journals, and peer assessments provide a more comprehensive picture of learner progress. These assessment methods also align with modern theories of second language acquisition that emphasize meaningful use over mechanical accuracy. Through video submissions, audio recordings, and digital storytelling, students can demonstrate their ability to use Arabic in contextually appropriate ways, reflecting not only their linguistic knowledge but also their intercultural competence and creative expression.

Pedagogical innovation in the digital age also opens the door to interdisciplinary collaboration (Mahmudah et al., 2025). Language educators can partner with specialists in instructional design, educational psychology, and software development to co-create content that is pedagogically sound and technologically engaging. This collaboration is crucial for Arabic language instruction, where tools must accommodate right-to-left script, diacritics, and a wide range of morphological forms. Furthermore, as artificial intelligence and natural language processing technologies advance, there is growing potential for

personalized learning pathways powered by adaptive algorithms. These systems can analyze student responses, detect patterns of error, and recommend targeted practice activities in real time. Such innovations, while still in early stages, hold promise for transforming the feedback loop in Arabic learning and reducing the lag between instruction and correction.

While this study is situated within the Southeast Asian context, its implications are applicable to a broader global discourse on the future of Arabic language education. As Arabic continues to grow in relevance religiously, diplomatically, and economically the need for scalable, effective, and inclusive teaching models becomes increasingly urgent. Remote education, bolstered by technological infrastructure, can democratize access to Arabic learning for populations previously excluded due to geographic, financial, or institutional barriers. Yet this democratization is contingent on thoughtful design, policy support, and ongoing research. Policymakers and curriculum developers must resist the temptation to adopt one-size-fits-all solutions and instead invest in context-sensitive approaches that respect linguistic, cultural, and pedagogical realities.

The value of this research lies not only in identifying what works but also in understanding why and for whom it works. The integration of technology in remote Arabic language learning is not merely a technical question but a deeply human one, shaped by aspirations, anxieties, and the evolving relationship between language, identity, and society. By investigating real-world practices and grounding analysis in authentic experiences, this study contributes to a more nuanced, ethical, and forward-looking vision for Arabic education in the digital age. Ultimately, it challenges stakeholders to move beyond surface-level digitization toward a more transformative educational paradigm—one in which technology becomes not a substitute for human connection but a catalyst for deeper, more inclusive language learning experiences.

1. Opportunities Offered by Educational Technology in Remote Arabic Language Learning

The integration of technology has created new opportunities for more flexible, personalized, and accessible Arabic language learning (Habib, 2025). Teachers and students from both institutions reported that online platforms such as Google Classroom, E-campus, and Zoom allowed for greater flexibility in lesson delivery and access to learning materials.

One Arabic teacher from Malaysia remarked: "Using Google Classroom helped my students access learning materials at their own pace. They could replay recorded lessons, which is not possible in traditional classrooms."

Another teacher in Indonesia highlighted the positive impact of digital resources: "Some students who were shy in class became more active in online

discussions. The chat features and breakout rooms gave them more confidence to speak Arabic."

Students also noted improvements in vocabulary retention and exposure to authentic Arabic content via YouTube and mobile apps. One student commented:

"We were asked to watch short Arabic videos and answer questions. It was more interesting than just memorizing words."

Thematic analysis identified three major advantages of e-learning integration: Asynchronous accessibility learners could review materials anytime, reinforcing their understanding. Increased engagement chat functions and multimedia resources facilitated participation, especially for introverted learners. Wider exposure to native content platforms such as YouTube and Al-Jazeera were utilized to connect learners to authentic spoken Arabic.

The findings of this study are consistent with the conclusions of Ritonga et al. (2024), who highlighted the significant role of technology in enhancing learner autonomy and motivation. In particular, the use of recorded lessons and multimedia materials reflects the advantages of asynchronous and multimodal learning environments. The transition from teacher-centered instruction to more student-centered approaches—enabled by features such as breakout rooms and chat-based interactions—parallels the interactive and affective learning dimensions discussed by Kerras and Essayahi (2022), who emphasized the importance of emotional engagement in online Arabic language classes.

Additionally, the observed improvement in vocabulary retention aligns with the work of Khasawneh (2022), who noted that audiovisual media integration sustains learner interest and strengthens linguistic input. These outcomes also resonate with the principles of constructivist learning theory, which advocates for learning as an individualized and active process shaped by the learner's interaction with digital content and tools.

2. Challenges Encountered by Learners and Educators in Remote Arabic Instruction

Despite these opportunities, the study uncovered several persistent challenges faced by both teachers and students. One major issue was technological readiness, especially in rural or economically disadvantaged areas. Teachers noted inconsistent internet connections and a lack of proper digital infrastructure.

A teacher from Indonesia stated: "Sometimes my students couldn't join the class because of poor signal or lack of devices. I had to repeat lessons for them."

Another teacher from Malaysia added: "I myself had to learn how to use Zoom and make digital content. There was no training given. It was stressful at first."

Students also expressed frustration with grammar-focused lessons that were hard to follow online. One student shared: "Nahwu is very hard to understand online. I prefer when the teacher explains face to face with examples on the board."

Additional challenges included: Lack of teacher training in e-learning pedagogy, difficulty maintaining student motivation over time, limited interactivity in grammar-based content (naḥw and ṣarf)

The challenges reported reflect earlier concerns raised in the literature. Issues of digital inequity and inadequate infrastructure parallel findings from Kasperski et al. (2023), who reported similar disparities in access and connectivity. Moreover, the absence of professional training for teachers echoes observations by Alakrash and Razak (2022) and Luppicini & Walabe (2021), who stressed the urgency of equipping educators with both technical and pedagogical skills.

The difficulty students faced in mastering grammatical content remotely also confirms Mohammed's (2022) point on the complexity of adapting Arabic language instruction—particularly grammar and listening components—to a digital environment. This underscores the need for curriculum adjustments that incorporate more interactive and visual grammar instruction, possibly using Albased adaptive learning tools, as advocated by Alghabban and Hendley (2023).

While emotional engagement strategies have been suggested in theory (Kerras & Essayahi, 2022), their practical application was limited in the observed institutions, suggesting a gap between theoretical frameworks and actual classroom implementation. This indicates a need for more applied training in affective pedagogy within digital Arabic instruction.

Conclusion

This study has explored the integration of technology in remote Arabic language education by analysing both its opportunities and challenges within formal educational settings in Southeast Asia. The findings reveal that technology offers significant benefits in terms of accessibility, learner engagement, and exposure to authentic Arabic content. However, the study also highlights persistent obstacles, including digital infrastructure limitations, lack of teacher training, and the difficulty of delivering grammar instruction effectively in online environments. These insights contribute to the growing body of literature on digital language pedagogy by offering a contextualized understanding of how Arabic instruction adapts to remote modalities, particularly in non-Arabic-speaking Muslim-majority countries.

While the study provides meaningful contributions, it is not without limitations. The research is constrained by its qualitative scope and limited geographic focus, which may not fully capture the diversity of experiences in other educational contexts. Future studies could adopt mixed-methods approaches or longitudinal designs to examine the long-term effects of digital instruction on Arabic proficiency. Additionally, further exploration of adaptive technologies, AI-based grammar instruction, and emotional learning strategies could enhance the effectiveness of remote Arabic language programs. These directions point toward a

more inclusive, flexible, and learner-centered future for Arabic education in the digital era.

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