

Exploring the Differential Effects of Face-to-Face and E-Learning Approaches on Learning Outcomes, Retention, and Student Engagement in English Language Education

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Abstract: This paper examines the comparative effectiveness of face-to-face (FTF) and E-learning approaches in English language education, focusing on learning outcomes, retention, and student engagement. A library research methodology was employed, systematically reviewing peer-reviewed literature published between 2010 and 2023. The study utilized thematic analysis to identify common patterns across the reviewed research, including flexibility; engagement, real-time interaction, and retention. Findings indicate that while E-learning offers greater flexibility and enhanced resource accessibility, FTF methods facilitate superior engagement and communication, which are crucial for language learning. Additionally, the study explores the potential of blended learning models, which combine the strengths of both FTF and E-learning approaches, leading to improved educational outcomes. Potential biases in the reviewed literature, such as publication bias and researcher perspective, are acknowledged. To enhance the accessibility of the results, a table summarizes the databases and number of papers retrieved, while a graph illustrates the percentage of papers included in the analysis compared to those rejected based on keyword criteria.

Keywords: E-learning, Retention, Student engagement, Blended learning, Thematic analysis.

1. Introduction:

1.1 Background of the Study

The increasing use of E-learning, particularly during the COVID-19 pandemic, has transformed how educational content is delivered and consumed globally. English language education, traditionally reliant on face-to-face (FTF) instruction, has also undergone this shift, raising questions about the relative effectiveness of these two approaches (Bozkurt et al., 2020). FTF learning environments provide opportunities for real-time communication, immediate feedback, and direct interaction between students and instructors—elements that are considered crucial for effective language learning (Cole, 1978; Ellis, 2016). In contrast, E-learning offers flexibility and access to a wide range of digital resources, catering to various learning styles and enabling students to learn at their own pace (Clark & Mayer, 2016). The sudden, global adoption of E-learning due to the COVID-19 pandemic highlighted both the strengths and limitations of each method. The benefits of E-learning's flexibility and adaptability became immediately apparent, but so too did its limitations, particularly in fostering engagement and communication essential for language learning (Dhawan, 2020). As a result, the need for a clear understanding of the comparative effectiveness of FTF and E-learning, as well as the potential benefits of blended learning models that incorporate elements of both, has become a pressing issue for educators and policymakers.

1.2 Problem Statement

While E-learning offers flexibility and convenience, concerns persist about its ability to support the same level of engagement, retention, and learning outcomes as traditional FTF instruction. In language education, where the development of communicative skills requires interaction, feedback, and practice, E-learning may lack the immediacy and interactivity of FTF learning (Ellis, 2016). Additionally, while FTF instruction supports active engagement and social learning, it is less flexible, requiring physical attendance and structured schedules. This study explores these differences, aiming to provide a clearer understanding of how these two methods compare and whether blended learning models can offer a more effective solution.

1.3 Objectives of the Study

This study aims to:

1. Compare the effects of face-to-face and E-learning methods on learning outcomes in English language education.

- 2. Assess the impact of these methods on knowledge retention.
- **3.** Analyze the role of these methods in influencing student engagement and interest.
- **4.** Explore the potential of blended learning models to address the limitations of both approaches.

1.4 Research Questions

To align with the study's objectives, the research seeks to answer the following questions:

- **1.** How do face-to-face and E-learning methods compare in their impact on learning outcomes in English language education?
- **2.** What are the differences in retention rates between students who engage in face-to-face and E-learning methods?
- 3. How do face-to-face and E-learning methods influence student engagement?
- 4. Can blended learning models offer a solution to the limitations of each method?

1.5 Significance of the Study

This study contributes to the ongoing discussion on the evolution of educational methods, particularly in response to the global shift toward digital learning. The findings provide valuable insights for educators, curriculum designers, and policymakers about the strengths and limitations of FTF, E-learning, and blended learning models. By understanding the comparative effectiveness of these methods, stakeholders can make informed decisions about the design and delivery of English language education, particularly in post-pandemic contexts.

2. Literature Review

2.1 Defining Key Concepts

In this study, several key concepts are central to understanding the comparative analysis between FTF and E-learning methods. Learning outcomes refer to the specific knowledge, skills, and abilities that students acquire through instruction. In the context of language education, this includes proficiency in reading, writing, speaking, and listening (Mayer, 2009). Retention is the ability of learners to retain and recall information over time, which is a critical component of educational success (Mayer, 2009). Student engagement refers to the level of interest, curiosity, and active participation that students exhibit in the learning process, which is often linked to motivation and overall academic performance (Fredricks et al., 2004).

Face-to-Face Learning in Language Education. FTF learning has traditionally been regarded as the gold standard in education, especially in the context of language learning. This method promotes real-time communication between instructors and students, facilitating immediate feedback and interactive discussions that are crucial for developing language skills (Ellis, 2016). Research shows that FTF learning environments foster a sense of community and belonging, which enhances student motivation and engagement, leading to higher retention and better learning outcomes (Freeman et al., 2014).

2.2 The Rise of E-Learning

E-learning has emerged as a prominent educational method, leveraging technology to deliver content and facilitate learning. It encompasses various modalities, including fully online courses, blended learning, and the use of digital tools in traditional classrooms (Ally & Tsinakos, 2014). The flexibility of E-learning allows students to access course materials at their convenience, accommodating different schedules and learning paces (Anderson, 2019). This adaptability is particularly beneficial for adult learners, working professionals, and those in remote areas where access to traditional education may be limited (Bozkurt et al., 2020). The shift towards E-learning has been accelerated by technological advancements and the increasing availability of digital resources. Online platforms can offer interactive content, such as videos, simulations, and quizzes, which enhance the learning experience (Mayer, 2009). The use of multimedia in E-learning aligns with the cognitive theory of multimedia learning, which suggests that combining visual and auditory information improves comprehension and retention (Clark & Mayer, 2016). Moreover, E-learning supports personalized learning paths, allowing students to focus on areas needing improvement, thereby catering to individual learning preferences (Siemens, 2005).

2.3 E-Learning: Flexibility vs. Engagement

E-learning has emerged as a popular alternative to face-to-face (FTF) education, particularly in response to the increasing demand for flexibility and accessibility in modern educational settings. It provides students with access to a range of digital resources, including multimedia content, interactive quizzes, and online discussion forums, all of which can be accessed at any time (Clark & Mayer, 2016). However, despite these advantages, E-learning faces significant challenges in maintaining high levels of student engagement and interaction — both of which are critical for the development of language skills (Rovai & Jordan, 2004). The lack of real-time feedback and the potential for isolation in E-learning environments can lead to reduced motivation and lower retention rates.



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2.4 Blended Learning: A Hybrid Approach

Blended learning, which combines elements of both face-to-face (FTF) and E-learning, has gained attention as a promising solution to the challenges posed by each individual method. By integrating the flexibility of E-learning with the interactive benefits of FTF instruction, blended learning provides students with a more balanced and dynamic learning experience. Recent studies suggest that blended learning can enhance student engagement, retention, and learning outcomes, particularly in language education, where both interaction and flexibility is crucial (Garrison & Vaughan, 2008). This approach allows students to engage in self-paced online learning while benefiting from the social and communicative aspects of face-to-face interaction.

2.5 Learning Theories and Models

The effectiveness of FTF and E-learning methods can be understood through various learning theories:

- **Behaviourism**: This theory focuses on observable behaviours and the role of reinforcement in learning. In the context of language education, behaviourist principles can be applied to both FTF and E-learning environments through repetitive practice, drills, and feedback (Skinner, 1954). E-learning platforms, for instance, can incorporate adaptive algorithms to provide personalized feedback and reinforcement, enhancing the overall learning experience (Clark & Mayer, 2016).
- Cognitivism: Cognitivism emphasizes the mental processes involved in learning, such as perception, memory, and problem-solving. Both FTF and E-learning methods can support cognitive development by engaging learners in activities that require critical thinking and the application of knowledge. For instance, E-learning can use simulations and interactive content to present cognitive challenges, while FTF settings facilitate discussions and problem-solving tasks in real-time.
- Constructivism: Constructivist theory argues that learning is an active, constructive process where learners build knowledge through interaction with their environment (Vygotsky, 1978). FTF environments naturally support constructivist learning through collaborative activities, group work, and peer interaction. E-learning can also foster constructivist learning by providing opportunities for online collaboration, discussion forums, and project-based tasks.
- Connectivism: Connectivism, a modern learning theory, highlights the importance of networks and connections in the learning process (Siemens, 2005). E-learning environments are particularly conducive to connectivist learning, as they facilitate access to a vast array of resources, networks, and communities. Learners can connect with peers, experts, and global sources of information, thus enriching their learning experience.

2.6 Student Interest and Engagement

Student interest and engagement are crucial for sustaining motivation and fostering effective learning. Engagement refers to the degree of attention, curiosity, and involvement that a student exhibits in the learning process (Fredricks et al., 2004). Research has shown that E-learning can enhance engagement through the use of interactive content, multimedia, and gamification (Dichev & Dicheva, 2017). These elements can make learning more enjoyable, stimulate curiosity, and encourage students to delve deeper into the subject matter. However, the absence of physical presence and social interaction in E-learning environments can negatively impact student interest and engagement (Rovai & Jordan, 2004). In contrast, FTF learning, with its interpersonal interactions, offers opportunities for social connection and collaboration, which can increase student interest and motivation. Freeman et al. (2014) found that active learning strategies in FTF settings, such as group work and discussions, significantly enhanced student engagement and performance.

2.7 Gaps in the Existing Literature

While numerous studies have compared FTF and E-learning methods, there is a need for a comprehensive analysis that considers various metrics simultaneously, such as learning outcomes, retention, and student interest. Furthermore, the role of individual learner differences—such as learning styles, self-efficacy, and cultural contexts—in determining the effectiveness of these methods requires further exploration. Future research should also investigate the impact of emerging technologies, such as artificial intelligence and virtual reality, on language learning.

3. Methodology

3.1 Research Design

This study employs a library research methodology, involving a systematic review and analysis of existing literature on FTF, E-learning, and blended learning approaches. This methodology was chosen due to the abundance of research on these topics, particularly in response to the COVID-19 pandemic, which spurred a

significant increase in studies examining the impact of E-learning on educational outcomes. The library research methodology enables the synthesis of a wide range of studies, offering a comprehensive overview of the current state of knowledge on the subject.

3.2 Data Sources

The study draws on a variety of academic sources, including journals, books, conference papers, and reports from reputable databases such as Scopus, JSTOR, and Google Scholar. Keywords like "face-to-face learning," "E-learning," "English language education," "learning outcomes," "retention," and "student interest" were used to guide the search. To ensure the relevance and currency of the findings, only peer-reviewed articles published within the last decade were considered.

The data for this study were collected from academic journals, books, and conference papers retrieved from academic databases such as Scopus, JSTOR, Google Scholar, and ProQuest. The inclusion criteria for the literature review were as follows:

- 1. Articles published between 2010 and 2023.
- 2. Studies focusing on English language education.
- 3. Studies comparing FTF, E-learning, and blended learning models.
- 4. Priority given to peer-reviewed and empirical studies to ensure data credibility.

The initial search yielded 265 papers from the selected databases. After applying the inclusion criteria, 165 papers were excluded, leaving 100 studies for further analysis.

Table 1 below presents a summary of the databases explored and the number of papers retrieved from each.

Database	Number of Papers Retrieved	Number of Papers Included
Scopus	85	35
JSTOR	60	25
Google Scholar	80	20
ProQuest	40	20
Total	265	100

3.3 Data Collection Methods

Data collection involved systematic keyword searches and screening processes to identify relevant studies. The inclusion criteria were based on the study's relevance to the research questions, the quality of the research design, and the credibility of the publication. Exclusion criteria included studies that were not peer-reviewed, lacked empirical evidence, or focused on non-language-related subjects. This rigorous selection process ensured the reliability and validity of the data used in this study.

3.4 Data Analysis

The collected data were analyzed using thematic analysis, a method that involves identifying, analyzing, and reporting patterns within the data (Braun & Clarke, 2006). This approach allowed for the comparison of findings related to the research questions, highlighting common themes and discrepancies. Thematic analysis provided a structured method for synthesizing the literature, ensuring a comprehensive and coherent analysis. The process followed several stages:

- 1. **Data Familiarization**: The first step involved reading all the selected papers to familiarize the researcher with the content and identify initial trends.
- 2. **Coding**: Key information from each study, such as the reported benefits and challenges of FTF and Elearning, was systematically coded.
- 3. **Theme Identification**: The coded data were then reviewed to identify recurring themes, such as flexibility, engagement, retention, and interaction.
- 4. **Theme Review and Refinement**: The themes were reviewed, refined, and grouped into categories that aligned with the study's objectives and research questions.
- 5. **Reporting**: The final themes were organized into sections of the paper, such as findings on learning outcomes, retention, and student engagement.

3.5 Graphical Representation of Data Inclusion

To visually represent the selection process, Figure 1 below illustrates the percentage of papers that were included in the analysis versus those that were rejected based on the inclusion criteria.

Figure 1: Percentage of Papers Included and Rejected



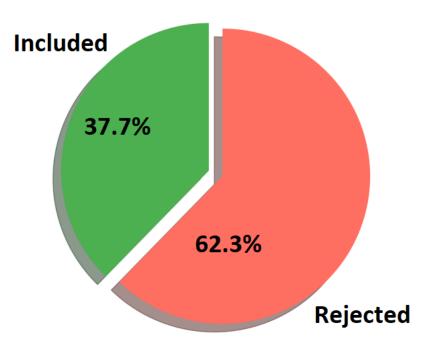


Figure 1: Percentage of Papers Included and Rejected

62.3% of papers were rejected due to not meeting the inclusion criteria (lack of focus on English language education or insufficient empirical evidence).

37.7% of papers were included for analysis, providing a comprehensive review of FTF, E-learning, and blended learning models.

3.6 Limitations

The reliance on secondary data introduces several limitations. Firstly, publication bias may affect the results, as studies reporting significant or positive findings are more likely to be published than those with null or negative results. Secondly, researcher bias in the original studies may have influenced the outcomes, especially in comparative studies where one learning method may be favored. Lastly, the geographical and cultural contexts of the studies vary widely, which may limit the generalizability of the findings.

4. Results

4.1 Comparison of Learning Outcomes

The analysis of existing literature reveals that both FTF and E-learning methods can achieve effective learning outcomes, although the results vary depending on the context and implementation. E-learning has demonstrated the potential to provide learning outcomes that are equal to or even superior to traditional FTF instruction, particularly when interactive elements and multimedia are incorporated (Means et al., 2013; Mayer, 2009). For example, online language courses that integrate videos, quizzes, and interactive simulations have been shown to enhance comprehension and engagement, leading to improved learning outcomes (Clark & Mayer, 2016). On the other hand, FTF methods offer unique advantages in developing speaking and listening skills, which are critical components of language proficiency. The immediate feedback and interaction in FTF settings facilitate spontaneous dialogue and real-time correction, both of which are essential for honing oral communication skills (Ellis, 2016). A study by Freeman et al. (2014) found that active learning strategies in FTF environments, such as group discussions and peer feedback, significantly enhanced language acquisition. These findings suggest that while E-learning can be highly effective, FTF methods remain valuable for developing specific language skills that require direct interaction.

4.2 Impact on Retention

Retention is a critical measure of educational success, reflecting the ability to remember and apply knowledge over time. E-learning environments, with their flexibility and use of multimedia, have been shown to enhance retention by catering to different learning styles (Mayer, 2009). Interactive content, such as quizzes and

games, enables learners to test their understanding and reinforce their learning, which contributes to improved retention. A study by Clark and Mayer (2016) found that learners who engaged with interactive E-learning content demonstrated higher retention rates compared to those who attended traditional lectures. However, retention can be more challenging in E-learning environments due to factors such as limited social interaction, motivation, and self-discipline (Akkoyunlu & Soylu, 2008). Without the structure and accountability of a traditional classroom, some learners may struggle to stay engaged and retain information. In contrast, FTF environments, with their regular interaction and feedback, provide a more immersive experience that can reinforce learning and enhance retention. Garrison (2017) noted that the sense of community and belonging in FTF settings fosters a supportive learning environment, which can have a positive impact on retention.

4.3 Influences on Student Interest and Engagement

Interest and engagement are crucial for effective learning, as they motivate students to actively participate and invest in their education. E-learning environments can enhance engagement through the use of interactive content, multimedia, and gamification (Dichev & Dicheva, 2017). These elements make learning more enjoyable and stimulate curiosity, encouraging students to explore topics further. However, the absence of physical presence and social interaction in E-learning can negatively impact student interest, leading to feelings of isolation and disengagement (Rovai & Jordan, 2004).

In contrast, face-to-face learning offers opportunities for social connection and collaboration, which can significantly enhance interest and motivation. The interpersonal dynamics of the classroom, including relationships between students and instructors, play a vital role in fostering engagement (Freeman et al., 2014). Active learning strategies, such as group work and discussions, are particularly effective in FTF settings, as they encourage participation and collaboration. A study by Garrison and Vaughan (2008) found that blended learning approaches, which combine FTF and online elements, can further enhance engagement by providing the benefits of both methods.

4.4 Advantages and Disadvantages of Each Method

The comparative analysis highlights the strengths and limitations of both FTF and E-learning methods. Face-to-face learning offers the benefits of direct interaction, immediate feedback, and a structured environment, which are particularly advantageous for language learning (Ellis, 2016). However, FTF learning lacks the flexibility and accessibility that E-learning provides, making it less suitable for learners with varying schedules or those in remote locations (Dhawan, 2020). E-learning, on the other hand, offers adaptability, scalability, and the potential for personalization, which can enhance the learning experience (Anderson, 2019). Despite these advantages, challenges such as technological issues, lack of self-discipline among students, and reduced social interaction can undermine its effectiveness (Bozkurt et al., 2020). Additionally, the absence of immediate feedback and real-time interaction in E-learning can hinder the development of speaking and listening skills—critical components of language proficiency.

4.5 Contextual Factors

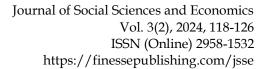
The effectiveness of FTF and E-learning methods is influenced by various contextual factors, including the age and learning style of the student, the specific language skills being taught, and cultural context. Younger learners often benefit more from FTF interactions, as they typically require more guidance and supervision (Harmer, 2015). In contrast, adult learners tend to favor the flexibility of E-learning, which allows them to balance education with work and other personal commitments (Bozkurt et al., 2020). Cultural context also plays a significant role in shaping the effectiveness of learning methods. In cultures that emphasize collectivism and social interaction, FTF learning may be more effective, as it aligns with cultural norms and expectations (Hofstede, 2011). On the other hand, in cultures that prioritize individualism and self-directed learning, E-learning may be better suited, as it empowers learners to take control of their education (Siemens, 2005).

4.6 Integrating Methods for Optimal Outcomes

Blended learning, which combines elements of FTF and E-learning, offers a promising approach to English language education. Blended learning leverages the strengths of both methods, providing flexibility while maintaining the benefits of direct interaction (Garrison & Vaughan, 2008). This approach aligns with the connectivist theory, which emphasizes the role of diverse networks in learning (Siemens, 2005). By integrating FTF and online elements, educators can create a more dynamic and engaging learning experience that caters to different learning preferences and needs.

5. Discussion

5.1 Summary of Findings





His comparison between face-to-face (FTF) and E-learning methods highlights that both have unique strengths and can be effective in different contexts. E-learning provides flexibility and adaptability, making it a valuable tool in modern education. However, face-to-face learning remains essential for activities that require direct interaction, immediate feedback, and active engagement. The effectiveness of each method depends on various factors, including the nature of the course content, the characteristics of the learners, and the cultural context in which the learning takes place.

5.2 Implications for Educators and Policymakers

The findings of this study offer crucial insights for both educators and policymakers in optimizing educational practices. Educators should tailor their teaching methods to the needs of their students and the specific learning goals of the course. For example, FTF methods may be more suitable for developing interactive skills like speaking and listening, while E-learning can cater to learners requiring flexibility and personalized learning paths. Blended learning, which combines the best of both FTF and E-learning, presents a promising approach to enhance student engagement and learning outcomes, offering flexibility without sacrificing the benefits of direct interaction. Policymakers are urged to invest in the necessary technological infrastructure, such as reliable internet access, and resources that support E-learning. Additionally, creating policies that facilitate professional development for teachers to effectively implement blended learning approaches will be vital. Ensuring that all students have equal access to both traditional and digital learning resources will help reduce educational inequalities and foster a more inclusive educational system. By supporting these strategies, educators and policymakers can optimize learning outcomes and ensure the future success of both face-to-face and E-learning methods.

5.3 Recommendations for Future Research

Future research in this area should delve into several key areas to further understand the impact of FTF and E-learning methods on language learning outcomes. Specifically, longitudinal studies are needed to explore the long-term effects of these teaching methods on language proficiency and retention. Understanding how each method influences sustained learning over time will provide valuable insights into their effectiveness beyond immediate outcomes.

Moreover, future studies should include a diverse range of learner profiles, taking into account factors such as age, cultural background, and learning preferences. These demographic variables may significantly influence how students engage with and benefit from different teaching methods. Research could investigate whether younger learners, adult learners, or those from different cultural contexts respond differently to FTF and Elearning, and whether personalized approaches may be needed for certain groups.

In addition, the integration of emerging technologies like artificial intelligence (AI) and virtual reality (VR) should be a focal point of future studies. AI can offer personalized learning experiences by adapting to the pace and needs of individual learners, while VR has the potential to create immersive, interactive language environments. Investigating the potential of these technologies to enhance language learning, especially in hybrid or fully E-learning contexts, could lead to new and innovative approaches that push the boundaries of traditional teaching methods.

By exploring these areas, future research can help refine educational strategies and harness the power of both traditional and technological methods to enhance language acquisition and retention for diverse student populations.

5.4 Final Thoughts

As education continues to evolve, integrating technology with traditional methods will be key to meeting the diverse needs of learners. Continuous research and innovation are essential to harnessing the full potential of both face-to-face and E-learning in language education. By understanding the strengths and limitations of each method, educators and policymakers can make informed decisions that enhance learning experiences and outcomes.

6. Visual Summaries

Table 2: Comparison of Learning Methods

Method	Advantages	Challenges	Learning Impact
Face-to-Face	Immediate feedback, real-time interaction	Less flexible, requires physical presence	High engagement and retention
E-Learning	Flexible, accessible,	Less interaction,	Mixed outcomes,

	multimedia content	isolation, lower engagement	dependent on design
Blended Learning	Combines flexibility with interaction	Requires coordination of both methods	Optimal engagement, retention, and outcomes

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All authors have read and agreed to the published version of the manuscript.

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Data Availability Statement: This study utilizes a library research methodology, relying on secondary data collected from existing academic literature. The data analysed were drawn from publicly available sources such as Scopus, JSTOR, and Google Scholar, which provide access to a wide array of peer-reviewed studies on face-to-face (FTF) and E-learning methods in English language education. As no primary data collection was conducted for this study, there are no newly generated datasets or original data to archive or share.

The findings and conclusions presented in this study are based on the synthesis of literature and analysis of studies already published and publicly accessible. Researchers or interested parties can access the original studies through the mentioned academic databases for further investigation. For any specific inquiries related to the data or studies referenced, individuals can reach out directly to the corresponding authors of the original works cited in the review.

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