Unpacking the Benefits of the Blended Learning Approach Synergies in Augmenting Students' Achievements

Amel Boumaraf [1]
Naima Chalghoum [2]

[1]Abbes Laghrour University, Khenchela (Algeria), amel.boumaraf@univ-khenchela.dz
[2]Abbes Laghrour University, Khenchela (Algeria), naima.chalghoum@univ-khenchela.dz

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ABSTRACT

Blended learning, a pedagogical technique that combines traditional face-to-face interactions with dynamic online components, is driving a dramatic transformative shift in the current modern educational system. This current study is trying to shed light on some important concerns about the symbiotic link between these modalities and their impact on student's academic achievements. To gather comprehensive insights concerning the issue, randomly selected (50) students of English across various academic years at Khenchela University and (08) teachers from the same department were engaged in this study by utilizing a questionnaire-based approach administration for both of them. A thorough examination of our respondents' responses reveals that the combination of traditional teaching methods and digital online resources offers a dynamic and engaging learning environment that promotes achievement levels. The results also emphasize the profound implications of blended learning highlighting its role in increasing student engagement and motivation, establishing good time management, and nurturing a thorough comprehensive understanding of course materials as well as highlighting the potential of blended learning as a catalyst for increased achievement, opening the path for comprehensive and fruitful learning experiences.

Keywords: Achievement, Blended, Learning, Online, Traditional.

1. Introduction

Technology-driven innovations have transformed established teaching approaches in recent years, transforming the educational landscape. A pedagogical method that challenges the constraints of conventional learning paradigms occurs in the world of education, where tradition and innovation intersect. It is called the blended learning paradigm which has emerged as a dominant paradigm among these developments. It heralds the fusion of the coming together of online learning activities and traditional classroom instruction. Blended learning provides a dynamic and flexible learning environment with the potential to maximize student engagement and achievement. It is a subtle combination of classic teaching approaches and contemporary digital resources. Blended learning provides a fluid framework that can be tailored to different educational environments, meeting the demands of both traditional and technologically savvy students.

The current study dives into the complex tapestry of blended learning, unpacking its potential benefits and advantages in the context of improving students' academic results and performance,

revolutionizing the educational contexts, and Propelling students' academic achievements to new heights.

As educational institutions around the world embrace the potential of technology to improve learning experiences, it is critical to examine the synergies that blended learning may bring in terms of improving student results. This study aims to shed light on the impact of integrating students into blended learning that might influence students' achievement in a variety of educational contexts

This research aims to provide insights into how technology-mediated learning might be used to promote a symbiotic relationship between traditional classical pedagogical approaches and new digital platforms.

2. Literature Review

In the age of technological evolution, the boundaries of education are expanding, challenging the conventional traditional contours of teaching and learning. Blended learning, an intricate complex blend, and a combination of in-person instruction and digital immersion, emerges as a catalyst and driving force in reshaping and transforming the educational landscape.

The combination of online and in-person learning methods is known as blended learning, and it has drawn a lot of interest recently due to its potential to raise student performance and outcomes. This approach is defined differently by researchers and educators. Graham (2006) supplied the most prevalent definition of blended learning, stating that "blended learning systems combine face-to-face instruction with computer-mediated instruction" (p. 5) while Finn and Bucceri ([2004](#)) propose a blend of the best aspects of online and traditional learning. Blended learning is "the thoughtful integration of classroom face-to-face learning experiences with online learning experiences" in the same setting, according to Garrison and Kanuka (2004) (p. 96). It is also defined as " the thoughtful fusion of face-to-face and online learning experiences," (Garrison & Vaughan, 2008, p.5).

Alammary (2019) indicated that blended learning has five components, two of which are face-to-face and three of which are online

- Face-to-face instructor-led: students attend a class in which the teacher provides the learning information with little interaction, experiential learning, or practice.
- Face-to-face collaboration: enables students to participate in classroom learning activities together.
- Online instructor-led: the teaching process is carried out online, with the teacher assessing learning progress and interacting with students throughout the learning process.
- Online collaboration: encourages students to engage in online learning activities.
- Online self-paced: allows students to study at their speed, with time and space flexibility.

Numerous studies have demonstrated the beneficial effects of blended learning on student performance, achievements, and learning processes. Hidaya (2018), for example, indicated that blended learning is advantageous to students in terms of academic performance, diversity of learning opportunities, and benefits to the student experience. As stated by Susan and Chris (2015), the primary benefits of blended learning are as follows: it makes better use of classroom time, students are more active, students are better prepared, students are more creative, it is more entertaining for students, and it provides the option of providing various educational resources for students. Following that, Albiladi and Alshareef (2019) evaluated the impact of blended learning on English teaching and learning. Their findings suggested that blended learning was successful in boosting language skills, increasing learning motivation, and improving the student learning environment. According to Eryilmaz (2015), blended

learning has various educational benefits, including increased instructional efficacy. Blended learning has a greater success rate of achieving learning outcomes and the intended objectives. This technique reduces the use of learning resources and time within educational facilities while increasing the achievement of targeted outcomes. Bozkurt and Sharma (2022) indicated that the blended learning approach is described as a procedure that combines both in-person and online learning, leveraging the benefits of both while limiting their respective drawbacks. This integration provides adaptability for learners, educators, and educational institutions by allowing flexibility in terms of schedule, location, learning paths, and pace, either sequentially or simultaneously. Blended learning provides versatility and flexibility in terms of accessibility. it allows students to reach the learning materials from any location and at any moment, all while experiencing the advantages of in-person assistance and guidance. When integrating diverse approaches and teaching tactics, it is critical to use technology successfully to accomplish the necessary ordered approach and establish the appropriate balance.

To summarize, the incorporation of online and face-to-face educational modalities in blended learning has various advantages that contribute to increased student accomplishment. Blended learning fosters a suitable atmosphere for students to flourish academically by encouraging active engagement, personalized learning experiences, and collaborative opportunities.

3. Methodology

Blended learning, characterized by the integration of traditional face-to-face instruction and online components, was examined for its potential impact on students' academic outcomes. Hence, This study employs a descriptive research design to investigate and unpack the benefits of a blended learning approach synergies in augmenting students' achievements in the Department of English at Khenchela University. To gather comprehensive insights, both teachers and students from the Department of English were engaged in this study by utilizing a questionnaire-based approach administration for both of them. Hence, eight (8) teachers of English and a representative sample of fifty (50) students across various academic years at the English department of Khenchela University were selected randomly for the study. Concerning students, we have selected them from different levels to ensure the reliability of our results and to comprehensively examine the matter.

By utilizing a questionnaire-based methodology involving both teachers and students, this study aims to offer a comprehensive exploration of the benefits of blended learning synergies in enhancing students' achievements within the Department of English at Khenchela University. The data collected from both groups will provide insights into the multifaceted dynamics of blended learning, enriching our understanding of its potential impact on educational outcomes.

4. Findings

Based on the study's goal, both teachers' and students' opinions and attitudes concerning the synergies of blended learning to promote student achievement levels were gathered. The examination and interpretation of the acquired results revealed important facts about the actual issue. Tables or figures are used to organize the scores.

1. **Student Questionnaire**

Item 1: Have you participated in courses that incorporate blended learning (a mix of in-person and online instruction)?

	Yes	No
Participants' number	37	13
Participants' frequency	74%	26%

Table 1. Students' Participation in Blended Courses

As shown in the above table aims to examine participants' engagement with instructional blended methodologies, 74% of the 50 respondents reported active participation in blended learning courses, which combine in-person and online education while 13 of them indicated the opposite. Hence, the findings highlight a significant integration of hybrid educational approaches that synergistically mix traditional classroom settings with digital online platforms,

Item 2: How engaged do you feel during blended learning activities compared to traditional classroom sessions?

	Not engaged	Somewhat	Very engaged
Participants number	7	16	27
Participantsfrequency	14%	32%	54%

Table 2. Students' Engagements

The second item depicts students' engagement levels within blended learning activities. The findings mentioned above revealed intriguing insights concerning participants' involvement levels where a substantial sizable of 54% indicated a high degree of engagement while 32% reported a moderate level and only 14% showed a lack of engagement. This distribution highlights the importance of synergies of blended learning approaches that cater to the various engagement preferences while optimizing the learning experience.

Item 3: How has blended learning influenced your understanding of the course materials compared to traditional classroom-only methods?

- ✓ made it more difficult
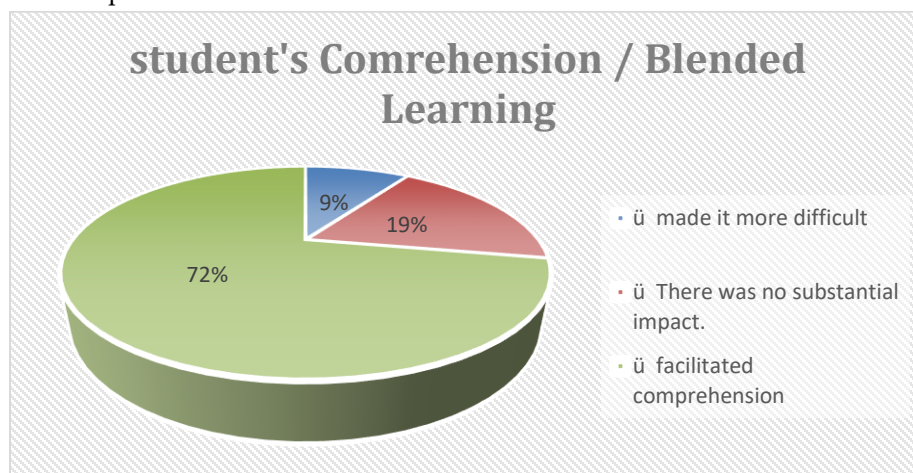- ✓ There was no substantial impact.
- ✓ facilitated comprehension

Figure 1. Students' Comprenshion using Blended Learning

Participant responses regarding blended learning's impact on their comprehension of intricate concepts

and course materials demonstrate the positive influence in favor of the synergies of the approach on learners' understanding and grasp of difficult concepts. Notably, a sizable majority of participants (72% of the total) reported that blended learning aided their comprehension of complex course materials. This lends weight to the great blended learning potential to improve students' capacity to understand complex concepts successfully. This point of view emphasizes the effectiveness of blended learning in encouraging autonomous inquiry and personalizing the learning experience to individual requirements within deeper understanding and engagement in complex course materials. In contrast, 19% reported a comparable degree of knowledge between the two ways, indicating that traditional methods remained effective for this grouping. Surprisingly, a small percentage of participants (09%) preferred traditional classroom-only techniques, underlining the value of in-person connections and real-time conversations. These different perspectives highlight the delicate interplay between educational modes and learners' cognitive processes, underlining the importance of individualized and well-balanced blended learning implementations to accommodate a wide range of learning preferences.

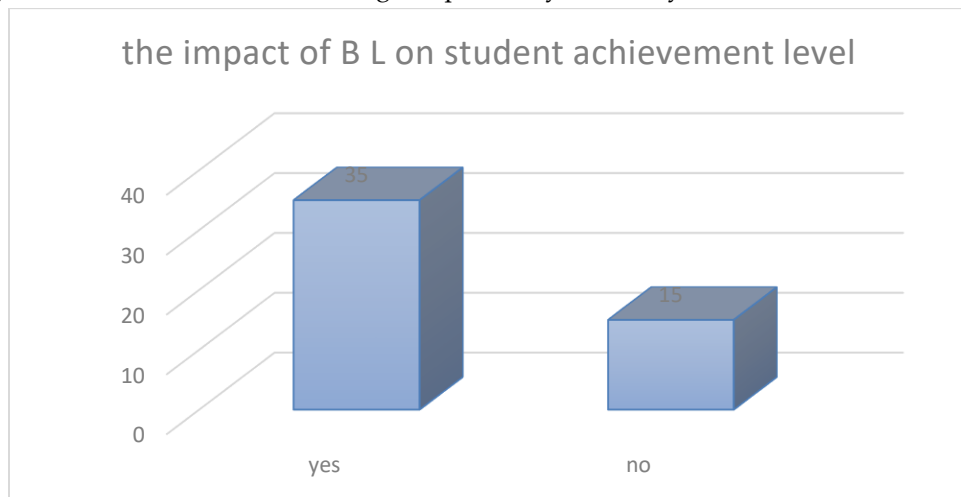**Item 4**: Do you believe that blended learning has positively affected your academic achievements?

Figure 2. Blended Learning Impact on Students' Achievement

The study of participant responses regarding the perceived influence of blended learning on their academic achievement reveals widespread agreement and a prevailing optimism. A significant 70% of the total participants answered affirmatively ("yes"), indicating that they believe blended learning has had a beneficial impact on their academic achievements and contributed positively to their outcomes. 30%, on the other hand, had a negative opinion ("no"). This prevalent optimism about blended learning's contribution to academic performance indicates an understanding of its potential benefits in improving learning outcomes. These results emphasize the potential value of blended learning in creating improved learning outcomes and enhanced achievements.

Item 5: How does blended learning contribute most to your academic achievement?

The fifth item delves into how blended learning primarily contributes to academic, achievement, and success. Eight participants did not answer the question while the majority of our sample' subjects turned

around the importance of blended learning in boosting their comprehension capacities, increasing engagement with course materials, promoting their time management, augmenting their scores, and making the learning process more flexible, easy and funny to learn. These factors mentioned collaborating to ensure a more effective significant and well-rounded educational experience, resulting in higher academic accomplishment

Item 6: Do you think blended learning has boosted your general motivation to learn?

- ✓ Not at all
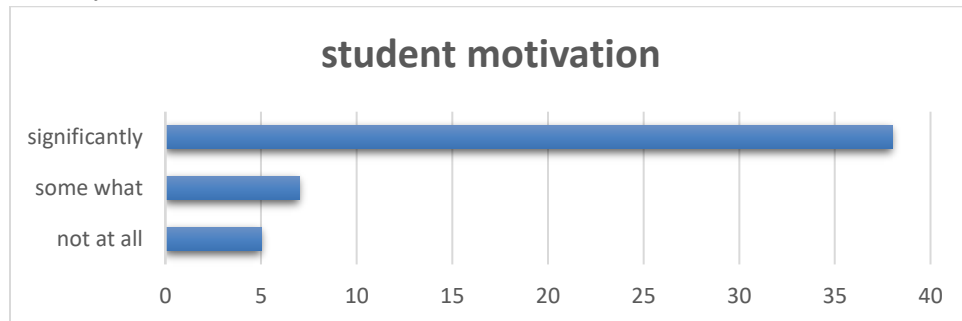- ✓ Somewhat
- ✓ Significantly

Figure 3. Students' Motivation Level

The examination of participant responses to the question about the impact of blended learning on general learning motivation indicates a striking trend. Notably, the majority of participants 38 (76%) reported that it had a good impact on their motivation to learn significantly. An additional seven (14%) participants indicated a considerable boost in motivation ("somewhat"). However, a minority of 5 subjects (10%) revealed no increase in motivation. These findings revealed the fact that blended learning's potential serves as a motivational catalyst for learners to enhance their achievement level as a significant approach attributing excitement and motivation for learning.

Item 7: Based on your experiences with the influence of blended learning on achievement, would you recommend it to your peers?
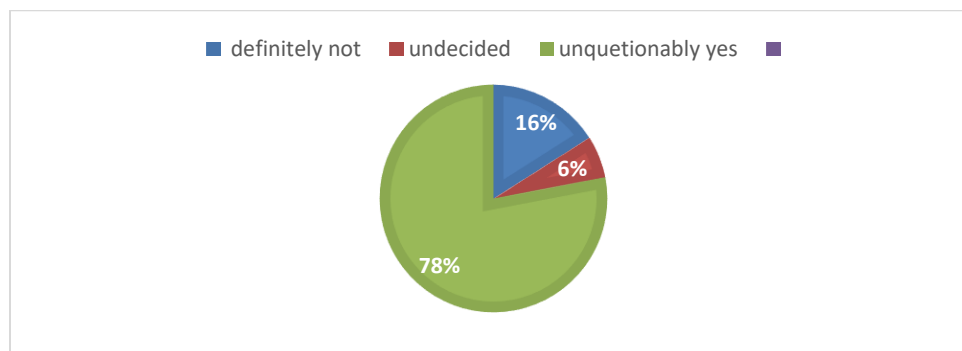
- Not
- Undecided
- Unquestionably Yes

Figure 4. Students' Blended Learning Recommendation

The participants' responses illustrated in the above concerning whether they would recommend a blended learning approach to their colleagues reveal useful interesting insights. A resounding 78% of participants strongly supported blended learning. Notably, 39 individuals (78%) stated unequivocally ("unquestionably yes") that they would suggest it to their peers. A minority of 8 participants (16%), on the other hand, were less likely to give this advice ("definitely not"). A smaller group of three people (6%) remained undecided. These findings demonstrate a high degree of support for blended learning's influence on attainment, achievement, and prospective advantages. The overwhelmingly positive response indicates that the majority of participants consider blended learning to be a beneficial strategy worth sharing with their colleagues.

1. Teachers' Questionnaire

Item 1: How do you perceive the relationship between blended learning and students' comprehension capacities to grasp complex concepts and topics?

This item seeks to explore teachers' perceptions concerning the correlation between blended learning methodologies and students' capacity to comprehend intricate concepts and subjects to engage with challenging academic course content. All of the respondents agree on the positive impact and usefulness of integrating blended learning in education as we are in a digital era that requires the use of e-learning with this digital generation. They indicated that blended learning, with its mix of online and in-person tasks, provides students of different learning styles with a variety of learning modalities (visual, aural, audio-visual, and kinesthetic) and opportunities that boost and help their comprehension of the course objectives. Three of them reported that integrating e-learning in education helps stimulate students' cognitive abilities and processes as it caters to different learning styles that enable them to comprehend complex course material. Four of them reported that blended learning enables a more personalized learning strategy as before engaging in in-person discussions and face–to–face classroom settings, students can explore online resources in their own leisure time, checking and clearing any misunderstandings and ambiguities. This method may result in greater comprehension since it allows students to lay a firm foundation before tackling more difficult areas of classroom interactions. Two of them claimed that the incorporation of digital tools and resources in blended learning helps students to investigate authentic language use and real-world applications of complicated difficult concepts. The interactive aspect of online platforms and simulations can encourage deeper engagement by allowing students to see the practical visualization and relevance of what they're studying and helping comprehension.

Item 2: Have you observed any specific improvements in students' exam scores, assignments, or overall understanding of course materials due to the blended learning approach?

Undoubtedly, all the teachers confirmed that the integration of the blended learning strategy has unequivocally resulted in significant enhancements in numerous facets of students' academic performance and comprehension. Teachers have consistently noticed increased exam scores, as evidenced by a significant increase in students' achievement levels. Assignments submitted under the blended learning paradigm demonstrate a greater level of depth, engagement, and critical analysis, indicating a more comprehensive understanding of course materials. Students' overall course understanding has improved as they actively traverse both digital and traditional learning tools, reinforcing essential concepts through a multimodal approach. The respondents agree unequivocally that blended learning has resulted in significant improvements in students' exam results, assignment quality, and overall

comprehension of course content, solidifying its status as a resounding success.

Item 3: How does blended learning impact students' motivation and attitude toward their studies, potentially affecting their overall academic achievements?

This inquiry delves into the many multifaceted effects of blended learning on students' motivation, attitude, and overall academic performance. All the participants claimed that by providing a diversified and interesting learning environment, blended learning can promote a more positive and proactive approach to studies. Students are generally more motivated when they are exposed to engaging online materials and real-world applications that ignite their curiosity and excitement. Blended learning adds variation to the learning process, piquing students' interest and enthusiasm. A dynamic learning environment is created by combining online resources and in-person interactions, which keeps students engaged and eager to explore new concepts. Two of them indicated that the ability to access resources at a student's own pace develops a sense of ownership, dependence, and control over their learning path, which strengthens their dedication to academic endeavors. Additionally, one of them revealed that the incorporation of technology and interactive components can boost engagement and make learning more enticing, which contributes to a more positive attitude toward studies. Furthermore, two of them reported that the adaptability of blended learning allows for a wide range of learning techniques, responding to individual preferences and learning styles. Students value adaptability, which leads to improved excitement for learning and a more positive attitude

Item 4: Have you noticed any variations in the achievements of students who engage more actively in the online components of blended learning compared to those who primarily attend traditional in-person classes?

This question tends to seek teachers' opinions concerning the academic achievement gap between students who actively participate in blended learning online components compared to those who mostly attend traditional in-person sessions. Teachers have seen significant disparities in the outcomes of these two groups. All the participants revealed that students who use online materials and e-learning platforms more extensively generally demonstrate improved comprehension and performance. They can examine information, participate in interactive activities, and access extra resources thanks to the flexibility of online components, which contributes to a deeper grasp of subjects. Students who predominantly attend in-person classes, on the other hand, may have limited exposure to supplemental digital content and little authentic language exposure.

Item 5: In your view, how does the flexibility offered by blended learning positively influence students' time management and study habits, potentially contributing to their achievements

The question inquires into the beneficial impact of blended learning's flexibility on students' time management, study habits, and subsequent accomplishments. Teachers frequently notice that the flexibility inherent in blended learning enables students to adjust their learning schedules to individual preferences and obligations, thus improving their time management skills. As they learn to blend online modules and traditional classrooms with their schedules, they develop disciplined study habits. Students can go deeper into subjects, study materials as needed, and engage in reflective learning as a result of efficient time management, which eventually benefits their academic performance. One of the respondents indicated that the adaptability of blended learning encourages students to proactively plan and manage their study schedules, developing time-conscious behavior that later reflects in the quality of their assignments and exam preparation. Another reported that blended learning allows students to

incorporate learning into their daily routines, improving their ability to manage time effectively and continuously engage with course materials. Another teacher revealed that she noticed that students who take advantage of the flexibility of blended learning frequently engage in active, spaced repetition, refining their study habits and resulting in a greater understanding of course content and higher test scores.

Item 6: How do you strike a balance between the traditional face-to-face interactions and the online components to ensure that students are well-prepared for assessments and achievements?

This item aims to check our respondents' viewpoints concerning the equilibrium of traditional face-to-face contacts and online components in preparing students for tests and achievements. Different instructors may respond in a variety of ways, demonstrating different techniques they employ to achieve this balance:

Two of them claimed that they combine and integrate in-person classes with online resources, including interactive simulations, authentic e-materials, and multimedia to reinforce complicated ideas and concepts, which improves students' comprehension and performance on tests. Two other respondents reported that in a hybrid approach, online exercises are assigned before classroom discussions. This pre-reading guarantees that students are more prepared for face-to-face sessions, actively participate in them and perform well on exams. One of them indicated that online components allow for self-paced study, while face-to-face time allows for questions and extensive deep discussions and conversations. This combination guarantees that pupils properly understand the topic, which reflects favorably on examinations. Another teacher said that she can diversify her instruction thanks to blended learning. Background information is provided online, and in-person encounters delve into real-world instances. This two-pronged strategy encourages deep comprehension, which contributes to students' performance in examinations and achievements.

5.Discussion

The study's findings highlight the crucial significance of blended learning in raising students' academic attainment through a synergistic fusion of traditional face-to-face interactions and online components. The results revealed that students can exploit a dynamic and complete instructional landscape that cultivates numerous multifaceted advantages by establishing a careful meticulous balance between these modalities and harnessing the synergies between traditional face-to-face interactions and online components. One significant revelation is the significant increase in student involvement and motivation that yields significant outcomes and improvement. The use of interactive online tools not only piques students' curiosity but also promotes true joy in studying. Students use the flexibility of online components to develop personalized study routines, maximize time management, and cultivate successful study habits as a result of their newfound enthusiasm. Additionally, the fusion of traditional and online approaches emerges as a potent catalyst for developing a deep comprehension of course materials. In-person workshops promote collaborative discussions and critical thinking, whereas online modules allow students to conduct an additional study and self-directed investigation. This combination fosters a thorough understanding of subjects, giving students the confidence and skill to deconstruct complicated concepts, resulting in measurably improved assessment outcomes. Furthermore, the intrinsic flexibility of blended learning allows a wide range of learning methods, resulting in a personalized educational experience that is tailored to individual preferences, and accommodates diverse learning styles. This versatility enables students to immerse themselves in course information at their own speed, resulting in a

deeper and more lasting understanding. As a result, students are well-prepared to approach tests with confidence, having a solid knowledge base and a sense of accomplishment. All in all, the findings of this study confirm and confirm indisputably that the synergistic potential of blended learning considerably contributes to the enhancement of students' academic performance and achievement levels. By carefully integrating traditional and online learning methods, teachers support their student's academic success and lay the foundation for an all-encompassing and successful learning experience.

6.Conclusion

In conclusion, the incorporation of blended learning represents a pivotal advancement in modern education, demonstrating the power of combining traditional and online pedagogical approaches. The study's findings highlight the numerous benefits that result from the synergy of such an innovative strategy. Blended learning generates heightened engagement, cultivates excellent time management and study habits, and fosters a holistic understanding of subjects through its careful balance of face-to-face interactions and digital resources. As students harness the flexibility offered by this approach, they not only bolster their academic achievements but also embark on a path of holistic and dynamic learning. This paradigm shift in education highlights the potential to reshape and transform academic education, ushering in an era of increased student performance and a deeper appreciation for learning.

Therefore, the findings underscore the significant consequences of blended learning, specifically its ability to enhance student involvement and motivation, promote effective time management, and foster a deep and comprehensive grasp of course content. Additionally, the study highlights the potential of blended learning as a catalyst for improved academic performance, setting the way for in-depth, comprehensive, and fruitful learning experiences.

References

Alammary, A. (2019). Blended learning models for introductory programming courses: A systematic review. *PloS one*, *14*(9), e0221765.

Albiladi, W. S., & Alshareef, K. K. (2019). Blended learning in English teaching and learning: A review of the current literature. *Journal of Language Teaching and Research*, *10*(2), 232-238.

Alsalhi, N. R., Al-Qatawneh, S., Eltahir, M., & Aqel, K. (2021). Does blended learning improve the academic achievement of undergraduate students in the mathematics course?: A case study in higher education. *EURASIA Journal of Mathematics, Science and Technology Education*, *17*(4), em1951.

Bozkurt, A., & Sharma, R. C. (2022). In pursuit of the right mix: Blended learning for augmenting, enhancing, and enriching flexibility. *Asian Journal of Distance Education*, *16*(2)

.Eryilmaz, M. (2015). The effectiveness of blended learning environments. *Contemporary Issues in Education Research (CIER)*, *8*(4), 251-256.

Finn, A., & Bucceri, M. (2004). *A case study approach to blended learning*. Los Angeles, CA: Centra Software.

Garrison, D., & Vaughan, N. D. (2008). *Blended learning in Higher Education: Framework, Principles and Guidelines.* San Francisco: Jossey-Bass.

Garrison, D. R., & Kanuka, H. (2004). Blended learning: Uncovering its transformative potential in higher education. Internet and Higher Education, 7, 95–105. https://doi.org/10.1016/j.iheduc.2004.02.001.

Graham, C. R. (2006). Blended learning systems: Definition, current trends and future directions. In C. J. Bonk & C. R. Graham (Eds.), The handbook of blended learning: Global perspectives, local designs (pp. 3–21). San Francisco: Pfeiffer

Hidaya, H. (2018). Effect of Blended Learning on Student Achievent, *Online Journal of Multidisciplinary*

Subjects, 12(3), 370-373

Kundu, A., Bej, T., & Nath Dey, K. (2021). Time to Achieve: Implementing blended learning routines in an indian elementary classroom. *Journal of Educational Technology Systems*, *49*(4), 405-431.

Susan, P., & Chris, S. (2015). Maximising Competency Education and Blended Learning. *Incol Competency Works, New York*.

Zhang, W., & Zhu, C. (2017). Review on blended learning: Identifying the key themes and categories. *International Journal of Information and Education Technology*, *7*(9), 673-678.