British Journal of Multidisciplinary and Advanced Studies: 6(3), 1-6, 2025
English Lang., Teaching, Literature, Linguistics & Communication,
Print ISSN: 2517-276X
Online ISSN: 2517-2778
https://bjmas.org/index.php/bjmas/index

Integrating Technology in Teaching Methods: Academic Perspective

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doi: https://doi.org/10.37745/bjmas.2022.04892 Published May 07, 2025

Citation: Alwan A.J. (2025) Integrating Technology in Teaching Methods: Academic Perspective, *British Journal of Multidisciplinary and Advanced Studies:* 6(3), 1-6

Abstract: *This paper aims to share findings on the importance of using ICT (Information and Communication Technology) tools in their classrooms. The objective is to gain a clearer understanding of the resources available, the training and support teachers receive, and how effectively they integrate technology into their teaching and professional development. It is an insightful trip to discover how these factors shape the teaching experience!*

Keywords: integrating technology, teaching methods, academic perspective

INTRODUCTION

Generally, Iraqi students (from rural and urban areas) and teachers have problems concerning connection technological tools and interconnection that move the process of learning. Thus, Iraqi English language teachers and students are in need of help and training to get the essential knowledge to integrate what is new in technology into the various methods of presenting activities of their topics. Several types of challenges, (such as: misusing technology, Teacher knowledge, cost of technology) need to be studied in order to specify possible solutions.

It is important to identify that the technology employed to improve the learning process is an essential factor of the academic framework. It should not be viewed simply as additional tool, but rather as an important resource employed throughout the educational journey. Scalars ensure the operative implications of the integration of technology in pedagogy which adds to the progress of education (Ab Kasim et al., 2009). Zulkifli et al., (2020) confirm that technology filled education necessitates a transformative process in syllabus, strategies, methods, and learning materials.

Technology could not support learning without teachers who know how to use it and integrate it into subject-specific area (Eby J. 1997). This paper brings attention to plans for taking the right

Print ISSN: 2517-276X
Online ISSN: 2517-2778
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tools. Also, it explains the skills needed to use these tools effectively. In addition, it states how to guess tools and adapt their use to solve educational problems.

For effective training, it's essential to choose the method and tools at the beginning of training. Clearly defining goals and methods from the opening lays a strong foundation for success. As noted by Diaz and Bontembal (2000), mixing technology into education involves more than just using hardware and software; it requires an understanding of educational principles related to technology use. This practical attitude can enhance the learning consequences.

Pedagogy helps teachers recognize how learning thoughts affect the design of activities and the selection of instructional technologies. Thus, realizing the relation between educational technologies and teaching methods assists teachers to see how this affects academic work. This paper revises this relation and encourages teachers elaborate in technology integration to be reflective in their practice.

Therefore, integrating teaching and learning with technology can serve as a platform for creating a good climate among teachers and learners. We see that many IT experts from various countries can get a warm reception and good jobs offer from several nations. Also, linguists agree that integrating technology ensure quality education.

Problem statement:

Generally, education has got a lot of technological tools that contribute to the process of learning, but teachers still face challenges in integrating these tools in educational methods of teaching. This is because of the lack of resources, training that hinder the usage of technological tools to enhance learning.

Purpose of the study:

The goal of this paper is to search the impact of using technology in teaching and learning.

Research questions:

What are the advantages and challenges of using technology in classrooms?

Significance of the study:

A significant advancement in the process of learning and teaching is marked by using and integrating technology in teaching. Thus, increasing learners' engagement in the activities of textbooks is a significant advantage of integrating technology inside classrooms. Using technological tools make learners active and stimulated. Also, mixing technology in education

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brings learners' attention to realize the material presented. So, technologies should be integrated in pre-service and in-service to develop teachers' abilities in using technological tools in the process of learning.

LITERATURE REVIEW

Various studies about integrating technology in learning have demonstrated the importance of technological integration in education. Old teaching methods are related to Socrates is called Socratic dialogue. Here, there is a challenge of asking questions to check students' assumptions, thinking, and their knowledge. Then, various methods and approaches were appeared, such as GTM, 1845, DM, 1900, Oral Approach, 1930- 1960, and the Audiolingual Method, 1950. In the 18^{th} and 19^{th} centuries, the concept "faculty psychology" was formed in the education system. According to this concept, the mind is separated from body. The mind is of three parts: the will, the emotion and the brainpower. Brain controls the will and emotion by learning classical literature and mathematics.

Theories were gradually developed starting with behaviorism. The collective role of instructional scientific research, learning theories, and educational research led to produce Technology of education (Panda *et al* 2020).

The field of study that studies the procedure of analyzing, designing, developing, implementing, and evaluating the instructional environment, learning materials, learners, and the learning process in order to improve teaching and learning is called Educational Technology. Kumar (1996) stated that the role of technology in education which signifies the use of audiovisual equipment hardware in educational processes was the early development of technology. Then, the notion of technology of education, i.e., techniques and methodologies of the teaching – learning process was identified by the development.

Aliwie (2024) indicated that the combination of tools and technological resources with information was called Information and Communication Technology (ICT). Also, Obeng et al. (2024) referred that computers, communication and peripherals are elements of information technology. Students' performance can be enhanced by blending learning (Spector et al., 2020).

FINDING AND DISCUSSION

This paper highlights challenges and suggests ways to address them, emphasizing the importance of integrating technology into their teaching plans for a more engaging learning experience. Also, it highlights the connection between pedagogy and technology in education. Tutors need to know the principles that guide operative technology integration. Plans are necessary to enhance this

Print ISSN: 2517-276X
Online ISSN: 2517-2778
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integration, encouraging teachers to reflect on their practices and employ technology to transform student learning experiences.

Blended learning can increase learners' critical thinking and practical linguistic skills that enhances the ability of teaching and learning. Everyday learning can be improved with the use of well-organized technology integration.

Current use of technology in teaching

Generally, teachers visualize technology as savior for them to regenerate the roles in classrooms. Therefore, classroom is not always is the learner centered. Teachers with students have to form teamwork with technology to create a successful learning process (Cognition and Technology Group at Vanderbilt, 1992).

Applying ideas from different sources to create a suitable learning environment is known as educational technology. Teachers have to differentiate between the two-expression technology in education and educational technology. Technology in education refers to computers or recorders used in schools to support traditional activities in classroom. Educational technology refers to various ideas to improve the process of learning.

Technological education was tried to be used from 1900s till nowadays, such as using videos. Between 1920 and 1930, radio was used in education but its effect was limited (Cuban, 1986). Then, using audiovisual technologies in education became familiar during 2nd World War. After that, TV was used at the beginning of 1950s (Reiser, 2001). In addition, social networks, blogs and wikis were started to be used for education (Roussinos & Jimoyiannis, 2013). Moreover, a rapid growth in integrating technological methods in education is seen to form educational revolution. Therefore, technology integration is an important part of teaching. During the planning stage, you must estimate the educational needs and a readiness of students, set clear lesson goals, chooses teaching methods, and decides how to assess students. You should also plan follow-up activities at this stage. Poor application of technology can lead to undesired results.

Effectiveness faced in implementation

Iraqi teachers and students have challenges in integrating technology effectively into their work at schools. According to writer evidence, as a teacher for a long period teaching in many secondary, intermediate schools and colleges of education, there is little evidence of technology integration into classroom various activities that require students to use technology to support learning. In fact, technology integration is unavailable in Iraqi education institutions (Kamary, n.d.). Also,

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most of teachers are not qualified in technology integration. Enough resources, dedication and planning are crucial required for integrating technology effectively at schools.

Best practices for integration

Education in the current world has witnessed a revolution from traditional classroom to a presentation using technological methods. Teachers should learn teaching content knowledge effectively. Also, they have to learn to communicate content to students who have knowledge about technology and able to use a variety of communication tools. Some teachers consider this environment as a challenge. Others have good practices of using and implementing educational technology to create learning experiences.

CONCLUSION:

Creating expressive learning knowledges can be achieved by integrating technology in education and this will result in a digitally cultured and good generation in the period of globalization. So, learners will have more profound and engaging learning experiences by integrating technology into classrooms. Also, by employing digital technologies, teachers can construct interactive and multimedia-rich classes that appeal to diverse learning and encourage a comprehension of the subject matter.

In addition, challenges in integrating technology in education have to be overcome by teachers during the process of learning. Technology integration motivates teachers to be creative and innovative. Integrating of pedagogy, content, and technology can be achieved by qualified teaching and learning (Mishra, 1998). Thus, integrating technology in education creates meaningful and enjoyable process of learning. Also, it enhances students' level and teachers' perspectives on integration would be transformed.

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