

## THE IMPACT OF ICT INTEGRATION ON TEACHING STUDENTS IN TERTIARY EDUCATION

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*Abstract:*

In the rapidly evolving landscape of education, the integration of Information and Communication Technology (ICT) has become imperative, especially in English as a Second Language (ESL) classrooms. This paper synthesizes existing literature to elucidate the multifaceted importance of ICT integration in ESL teaching. With the advent of digital tools, educators are presented with opportunities to enhance language learning experiences, cater to diverse learner needs, and foster interactive and engaging pedagogical practices. Moreover, ICT facilitates authentic wide range of source language used through exposure to real-world contexts, thereby promoting language acquisition and proficiency. This article explores various ICT applications such as multimedia resources, educational software, and online platforms, highlighting their potential in facilitating language learning. Furthermore, it discusses the challenges associated with ICT integration, including access disparities and pedagogical concerns, while proposing strategies to address these issues effectively. By embracing ICT integration, ESL educators can create dynamic and inclusive learning environments that empower learners to thrive in today's interconnected world. This review underscores the imperative role of ICT in ESL education and advocates for its thoughtful integration to maximize learning outcomes and equip learners with essential skills for success in a digital era.

*Key words:* Information and Communication Technology (ICT), traditional teaching, quality education, pedagogic proficiency, flexible learning, wide range of sources, distance education, shared experiences

*doi:* <https://doi.org/10.2024/mfc1b639>

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The outbreak of Covid-19 epidemic that shook the whole world has contributed to acceleration in e-learning markets albeit it has become a real disaster for a great number of global companies. The demand for online courses has increased significantly among university students lately according to US reports. This actually shows the importance of ICT integration in education system. The ICT (the incorporation and the use of Information and The Communication technology) is the technical term referring to the process of applying technology into various spheres such as education and business to enhance overall efficiency and quality. Specifically, ICT is incorporating digital tools into teaching and learning experiences. ICT supports mixed learning approaches whereby teachers can combine traditional methods with digital resources. The more interactive the lessons become, the more students get engaged in ESL classrooms. This module also facilitates cooperation and interaction among students and educators throughout the world. Despite contributing to

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global village issue, an access to a virtual world enables learners to share educational resources and collaborative project tools across the borders. Not only students but also teachers are more likely to benefit from the technological age. The availability of virtual educational resources help them improve their teaching skills and practices. Lifelong learning is supported through ICT tools which is also accessible to those who are beyond educational settings. Generally, ICT is of great importance in various domains of education, particularly it has profound impact on the development of students' learning experiences and professional opportunities of educators in college and universities.

Enhanced learning opportunities. Before technological revolution, classroom environment at colleges or universities used to appear monotonous with physical books offering academically challenging theories. There were usually teacher-centered lessons resulting in low quality of education in most parts of the world. Traditional methods applied in language acquisition process have no more met the requirements of educational standards. Thanks to the advances in technology which make a broad range of virtual sources accessible for tertiary students on a global scale, efficiency in the very system has seen a considerable increase. Internet as a main digital resource, comprises numerous websites where learners can find necessary information related to courses they are doing. Time and distance used to be hindrance for most students conducting research on their assigned topics. They would have to spend plenty of time in libraries searching for sources they could use in their academic work. On top of that, there was often lack of physical books due to high demand. The appearance of e-library removes such obstacles significantly. Both teachers and learners who have been subscribed virtually to e-libraries can obtain academic data at any time and place via just the Internet connection. The role of e-libraries is particularly, crucial among students dwelling in small towns and rural areas where libraries offer limited edition or small selection of books. Not only e-books but also have other online materials contributed to productivity in educational process. The wider the range of study materials is, the more efficacious it is for teachers to explain the topic. To take science classes as an example, it seems quite challenging for students to grasp the meaning of scientific theories unless they encounter authentic examples from everyday life. The multimedia, basically, videos presenting a theory practically can help students visualize the concept explained. The availability of e-labs also provides safe virtual classrooms for making various experiments in short period of time.

Flexibility and accessibility. The integration of ICT has a tremendous influence on making traditional classes more fruitful than before. Flexibility and accessibility in contemporary higher education is one of the most underlying factors of the very productivity. Time and distance is no longer major barrier for students from different backgrounds. The obtainability of online courses gives both local and international students the chance of pursuing education remotely. It encourages cooperation among learners living in countries which have suffered from political conflicts with one another. Online video conferencing platforms such as ZOOM bring multitudinous people across borders together, which in turn, contributes to educational and cultural resources exchange. Students who choose to work while studying owing to financial challenges can, likewise, benefit from e-learning opportunities. They can even keep up with their counterparts who prefer campus-based education. Online education, in addition, plays crucial role among individuals who have to skip lessons because of health issues to persist learning at their own pace.

Improved communication and collaboration. Online discussion forums bring a lot of students speaking various languages together in one virtual room where they can share linguistic culture. They collaborate on academic projects exchanging information and resources. Social networks facilitate ongoing conversations among them beyond the

confines of physical classrooms. Students are able to receive feedbacks from their peers with different perspectives. Along with critical thinking, team working and communication skills improve considerably. The technological surge has a positive impact on the relationship between educators and learners. They can keep in touch at any time after classes. This shows the availability of teachers for students seeking assistance on their assignments. Online webinars may also be the only place where students can meet famous academicians from remote parts of the world. In such meetings professors share valuable knowledge and experience that is necessary in the future career of students.

**Digital literacy skills.** In contemporary technology age, digital literacy is a basic competency for employees according to demand in occupational business. In order to work on online data, people should be able to use digital tools and gadgets successfully. Nowadays, almost every document is being digitalized, even in developing countries. Take, Uzbekistan, as an example, the percent of digitalizing documents has recently risen significantly, which means that we depend on technology more than ever before. The postgraduate students with literacy skills are required in most workplaces. Workers owning the very competency are believed to be valuable assets as they are versatile in aspects the job necessitates.

**Professional development for educators.** This trend emphasizes life-long learning for both educators and students. As long as the technology keeps evolving, novel innovations on teaching methodologies and strategies are likely to be continuous. Educators always need to be familiar with alterations in their sphere so as to meet the requirements of current dynamic education. The main reason for this challenge is the fact that today's students are more exposed to variety of assessment and evaluation tests before being enrolled to universities than in the past. They have to go through several intellectually arduous steps so that they won't fail in admission exams. Teachers working at higher establishments must be even more sophisticated and aware of up-to date strategies and approaches to be able to foster engaging and interactive environment among students with high knowledge level. It is obvious from the current progress that educators need to master computers skills as well as possible and be critical to select necessary materials for their classes. Digital improvements make teachers work on themselves continually since it triggers rivalry among educators. Versatile employees are always in demand all over the world for the sake of work productivity in offices. For instance, teachers possessing social, academic and computer skills are often preferred over those who are well qualified in their major but are vulnerable to technological advances.

In conclusion, the ICT plays a crucial role in increasing quality in tertiary education. It seems that motivating learners to study through traditional approaches is not practical any more. Educators can easily create engaging ambience among tertiary students thanks to the ICT as long as they are good at using digital tools. This module has shed light on complex scientific subjects by supporting virtual authentic examples. Furthermore, the integration of Information and Communication Technology (ICT) in teaching ESL classrooms emerges as a pivotal approach to meet the evolving demands of education in a digital age. Through a comprehensive review of literature, it becomes evident that ICT offers myriad benefits for both educators and learners alike. By leveraging digital tools and resources, educators can create dynamic and interactive learning environments that cater to diverse learner needs, foster authentic language use, and promote language acquisition and proficiency. Despite the challenges associated with ICT integration, such as access disparities and pedagogical concerns, this review highlights the importance of addressing these challenges through strategic planning, professional development, and equitable resource allocation. Ultimately, the thoughtful integration of ICT in ESL classrooms holds tremendous potential to enhance

language learning experiences, empower learners, and prepare them for success in an increasingly interconnected and technology-driven world. Thus, it is imperative for educators and policymakers to recognize the significance of ICT integration and work collaboratively to harness its transformative power in ESL education. By doing so, we can ensure that ESL learners are equipped with the necessary skills and competencies to thrive in the global society of the 21st century.

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