

## ICT INTEGRATION IN TEACHING AND LEARNING

*by:*

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Computers, laptops, tablets, interactive whiteboards, educational software, online platforms, internet access, and multimedia material are just a few of the tools and resources that are used in ICT in education. It seeks to enhance the efficacy and efficiency of teaching strategies for teachers while simultaneously promoting and optimizing the educational experience for students. ICT is used in the classroom in various ways because it allows teachers to convey material through text, graphics, videos, and simulations that accommodate different learning styles. In addition to conducting research, working with peers, and participating in self-paced learning, students can access knowledge from around the globe. ICT schools have the power to change conventional methods of instruction and learning, improving accessibility, engagement, and adaptability to the demands of contemporary students. To genuinely improve the learning experience and avoid being a distraction, however, appropriate infrastructure, teacher training, and a deliberate strategy are essential (Brown, 2025).

ICT, or information and communication technology, is essential to raising educational standards. The typical classroom becomes a dynamic and interactive learning environment when ICT is included in teaching and learning. It makes it easier for educators and learners to access, exchange, and produce knowledge. By removing geographical restrictions, ICT in education has dramatically increased access to educational resources. Remote learners can now take advantage of previously unattainable opportunities by accessing top-notch learning resources, online courses, and instructional tools. ICT enables individualized learning experiences through adaptive learning systems. Pupils can interact with content that suits their unique learning styles,

advance at their own speed, and get personalized feedback. It facilitates their development of a more profound comprehension of subjects. ICT integration in the classroom facilitates the transfer of academic knowledge to practical application. Students can investigate and apply ideas in real-world situations using simulations, virtual labs, and interactive multimedia content, which also improves their ability to solve problems and think creatively. With the use of webinars, online courses, and collaborative platforms, educators can participate in ongoing professional development. This guarantees that teachers remain current with the newest methods and developments in technology. (Sarvottam International School, 2025).

ICT in the classroom is crucial to improving teaching and learning. It provides educators and students with a wide range of digital tools, resources, and platforms for engaging, dynamic, and interactive learning. ICT teaches digital literacy, creativity, critical thinking, and teamwork, which are essential for success in a technologically evolved world. ICT makes instruction more dynamic and accessible, improving instructor delivery. Online assessments, multimedia presentations, and virtual learning environments can fit different learning styles and needs. ICT also fosters global connectivity, allowing professors and students to collaborate and learn outside of class. ICT integration boosts creativity, efficiency, and prepares teachers and students for digital challenges. ICT integration into teaching and learning is essential in the digital age. It inspires creativity, empowers teachers and students, and bridges education with technology.

#### References:

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