

## TECHNOLOGY INTEGRATION AND PERSONALISED LEARNING

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### Abstract

Technology has become an integral part of our daily lives, revolutionizing the way we communicate, work, and learn. Its role in personalized learning cannot be overstated. In this paper, we will explore the impact of technology in personalized learning, its benefits, and the various types of technology tools that support this approach.

Firstly, technology serves as a powerful tool for individual learning. With the help of digital devices such as tablets, laptops, and smartphones, students can access a wealth of educational resources, engage in interactive activities, and explore subjects at their own pace. This fosters a sense of autonomy and empowers students to take ownership of their learning journey.

Furthermore, technology plays a crucial role in enhancing accessibility in personalized learning. It breaks down barriers by providing students with diverse learning needs with equal opportunities to access educational materials and adapt them to their specific requirements. Whether it's through text-to-speech software for students with visual impairments or translation tools for English language learners, technology ensures that education is inclusive and accessible for all.

The use of technology in the classroom significantly enhances student engagement by making learning more dynamic and interactive. Students, who are already accustomed to electronic devices, find their interest piqued when technology is integrated into their education. This integration allows for a more engaging learning experience, reducing distractions and fostering participation through various technological resources, oral presentations, and group activities.

**Keywords:** [Technology Integration, Personalised Learning, Technology Tools, accessibility Of Digital Devices]

### What Is Personalized Learning?

Any teaching strategy that includes methods, tools, and technologies to ensure impactful learning at one's own pace, requirements, and goals can be considered personalized learning. In a personalized education setting, students get to choose the pace they wish to learn with, the topics they want to prioritize, multiple ways to assess themselves and work on their shortcomings, and use technology and other resources to meet their long-term educational goals.

### IMPACT OF TECHNOLOGY INTEGRATION IN PERSONALISED LEARNING

The dynamic landscape of education has witnessed a lot of advancements and innovations in the last few decades; however, the introduction of personalized learning has been the best thing that has happened in the industry until today. In this paper, we'll uncover the dynamics of personalized adaptive learning and how personalized education is a game changer when it comes to modern education.

### Benefits Of Personalized Learning For Students

Personalized education has seen massive growth in the past few years, many schools have already started implementing teaching and learning methods that focus on personalized education. The reasons why everyone is

focusing on personalized education have been mentioned below:

#### 1. Increased Student Engagement

Personalized education through new technologies and the implementation of AI seamlessly solves the problem of poor student engagement in classrooms. Through personalized education systems, students get to understand concepts in an easier way, thus increasing their attention and engagement over time.

#### 2. Skill Development

personal Implementation of personalized learning is a great way to foster growth and skill development in students. This is ensured by developing soft skills like time management, self assessment, analysis, etc.

#### 3. Digital Literacy

Technology has become an integral element of personalized learning in most schools. This integration of technology has been helping to improve digital literacy among students and guiding them towards a future where they'll have a competitive edge over those who are not technologically sound.

#### 4. Self Assessment Opportunity

Most personalized learning models have an AI and assessment tool that students can use to assess their performance, weaknesses, and strengths and use the

same tool to generate the perfect learning path for themselves.

### 5. Flexible Learning Pace

methods is that it can help you choose the pace you want to learn at so you can meet your personal and academic goals at whichever speed you want. The best benefit that a student can get out of personalized learning is that it can help you choose the pace you want to learn at so you can meet your personal and academic goals at whichever speed you want.

### Role of Technology in Personalized Adaptive Learning

Adaptive learning is typically the custom learning/teaching approach where the unique needs of each student are met via personalized learning pathways, resources, and real-time feedback. This acts as an alternative to the conventional one-size-fits-all approach to learning and effectively boosts a student's learning efficiency.

It's no wonder that technology has become a very important part of the education industry, opening the doors to interactive education and intelligent learning systems. With AI and machine learning technologies, it is now possible for anyone to assess their growth, learning curve, strengths, weaknesses, and the best possible solutions.

Furthermore, technology in education is a great way to make our students technologically sound so they can keep up with the advancements without lagging behind. And finally, technology is getting cheaper and more affordable with each passing day, fostering a better and more engaging learning environment for students.

### What Are the Challenges of Personalized Learning?

Without adequate technology or support, implementing personalized learning can come with some hurdles:

**Insufficient tooling.** While the right tools help educators set up personalized learning experiences, the wrong ones can get in the way or prevent teachers from creating them altogether.

**Lack of buy-in.** Personalized learning can be

challenging to initiate in a classroom setting without the support of the educational institution.

**Inconsistent implementation.** When personalized learning isn't consistent or comprehensive, it can be frustrating for educators and learners.

**CONCLUSION:** Personalized learning leverages technology and adaptive learning platforms to optimize educational resources and minimize wasted time. Students can focus on areas they need to develop, accelerating their progress and potentially shortening the overall duration of their learning journey. This targeted approach can also lead to cost savings by reducing the need for repetitive instruction or unnecessary coursework.

The most effective way to reduce the number of repetitive, time-consuming duties a teacher undertakes is to use technology in the classroom. Educational technology applications may save a lot of time and energy by automating or partially automating day-to-day operations like attendance tracking and performance monitoring. Students are taught how to use technology responsibly and strategically, which can help them make decisions and develop self-discipline. Technology in education can help students to prepare for lifelong learning.

No matter the technology in the classroom, we still need teachers, great teachers, to help students cultivate a love of learning and master the core content and skills they need to be successful.

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