Original Research Article

THE ROLE OF TECHNOLOGY IN EDUCATION AND ITS POSITIVE IMPACT ON THE WORKFORCE

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Abstract

Technology is a tool to acquiring knowledge in particular field to solve the problems. Educational technology is prevailing to impart teaching, learning process effectively and efficiently. Teaching doesn't stop with lectures but it needs the participation of students using different technical and technological gadgets to apply what is learnt in the classroom situation. At present apart from the teacher made gadgets, many electronically operated gadgets are in use to encourage self study and quality of education. In this paper we come to know how technology helps in both way for effective learning and teaching process. A positive work environment is an atmosphere where employees enjoy performing their jobs and feel supported. Creating a positive environment in the workplace involves implementing activities that make staff feel engaged, valued, and empowered. Understanding this concept is crucial because it enhances team building, increases the sense of belonging, and improves employee productivity.

Keywords: *Online reviews, Youth, Technology, Education, Workforce, Knowledge, Technical skills.*

Introduction:

Technology plays a pivotal role in education, empowering learners for the future. It enhances accessibility and inclusivity through online learning platforms and virtual classrooms, providing personalized experiences that cater to individual needs and learning styles. The technology addresses the digital divide by ensuring equal access to technology and the internet, empowering marginalized communities. Blended learning approaches combine physical and virtual elements, offering flexibility and customization. Interactive tools and gamification make learning engaging and interactive. Data-driven education utilizes learning analytics for personalized instruction and progress tracking. Technology fosters future-ready skills such as digital literacy, collaboration, and communication, preparing students for the demands of the future workforce. The role of technology in education has become increasingly vital. Technology has revolutionized the way we learn and has opened up new possibilities for both educators and students. By incorporating technology into education, we can enhance accessibility and inclusivity, develop future-ready skills, promote engagement and motivation, enable data-driven education, and streamline administrative processes. In this era of digital transformation, understanding why it is important to have technology in education is crucial for creating effective and dynamic learning environments that prepare students for success in the twenty-first century. The impact of technology on work and workers is multifaceted and complex. Technology is

not homogenous and at least should be thought of in terms of enabling and replacement technologies: the former complementing the productivity of workers and the latter taking away the need for workers.

Objectives:

1. **Enhancing access**: Technology helps make education more accessible to people from all backgrounds, regardless of their location or circumstances.

2. **Personalized learning**: Technology allows for personalized learning experiences, catering to individual needs and interests.

3. **Collaboration and communication**: Technology fosters collaboration and communication among students and educators, promoting teamwork and problem-solving skills.

4. **Skill development:** Technology equips students with the digital literacy skills needed in today's workforce, such as coding, data analysis, and online collaboration.

5. **Real-world connections**: Technology enables students to connect with professionals and experts in various fields, providing real-world insights and opportunities.

6. **Lifelong learning**: Technology encourages lifelong learning by providing access to online resources, courses, and platforms for continuous skill development.

Review of Literature:

- What is technology in education? Technology in education is also stated as educational technology or Ed Tech. The combination of computer hardware and software with educational theory facilitates the learning of students.

- Additionally, educational technology can be based on theoretical knowledge from several disciplines such as educational sociology, artificial intelligence, computer science, and communications. Further, educational technology

also helps students learn through various mediums such as computer-based training, online learning, and other mobile technologies.

- The Association for Educational Communications and Technology has defined technology in education as "the study and ethical practice of facilitating learning and improving performance by creating, using and managing appropriate technological processes and resources."

- In other words, educational technology refers to the process of integrating technology in education with the objective of diversifying the learning environment for students. Examples of what is technology in education include interactive screens in classrooms, online training sessions held during the pandemic, as well as usage and development of school-centric applications for assignment and submission of homework.

Importance:

- **Enhanced Learning**: Technology provides interactive tools and multimedia, enhancing the overall learning experience for students.

- **Self-Directed Learning**: It fosters self-directed learning, encouraging students to take control of their education and develop critical thinking skills.

- **Adaptability:** Technology equips students with adaptability, a crucial skill in a rapidly changing job market.

- **Remote Education**: It enables remote education, breaking down geographical barriers and increasing access to quality learning opportunities.

- **Preparation for Workforce**: Technology aligns education with the demands of the workforce, ensuring students acquire skills relevant to today's job market.

- **Skill Development**: It empowers individuals with technical skills, making them more competitive in a technology-driven society.

- **Global Connectivity**: Technology facilitates global connectivity, allowing students to collaborate with peers worldwide and gain diverse perspectively.

Research Methodlogy:

This study is based upon Primary Data and Secondary Data. The Primary Data is collected by conducting a questionnaire method by using a simple random sampling method, in that total 10 questions were asked to the respondents and the secondary data is collected from published books/ articles/ Search engine.

Data Analysis:

1. Has the technology changed the way of learning?
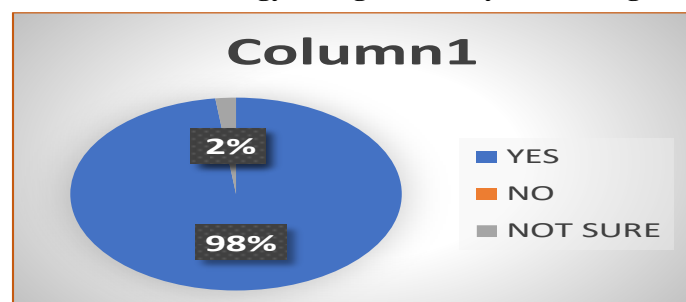
Figure 1 shows that the majority (98%) have voted YES and they agree that the technology have changed the way of learning,whereas no respondent have voted NO, a small portation (2%) have voted NOT SURE.

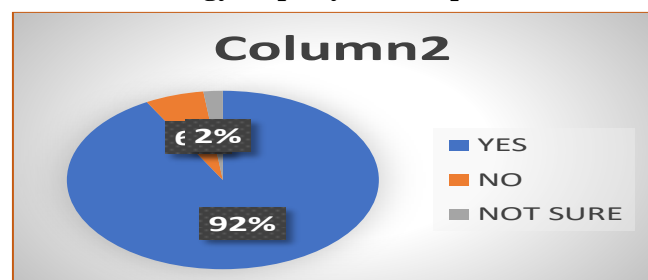**2 .Has technology helped you to acquire new skills?**

Figure 2 shows that the majority (92%) have voted YES and they agree that the technology has helped them to acquire new skills, whereas a small portaion (6.1%) have voted NO, a minority of respondent (2%) have voted NOT SURE.

3. Do you think technology has made education more accessible to people from different backgrounds?
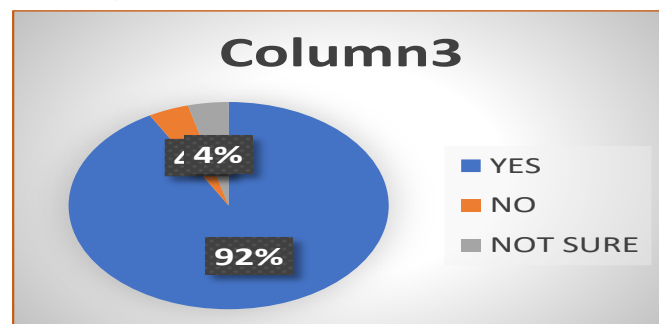

Figure 3 shows that the majority (92%) have voted YES and they agree that the technology has made education more accessible to people, whereas a small portion (4%) have voted NO and minority of respondent (4%) have voted NOT SURE.

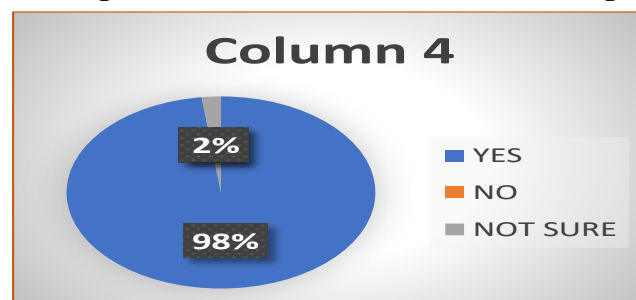**4. Do you think technology can be further integrated into eduaction to enhance learning?**

Figure 4 shows that the majority (92%) have voted YES and they agree that the technology can further integrated into education to enhance learning,whereas no respondant have voted NO,a minority of respondant (2%) have voted NOT SURE.

5. Do you think technology can be further integrated into the workforce to enhance learninh and productivity?
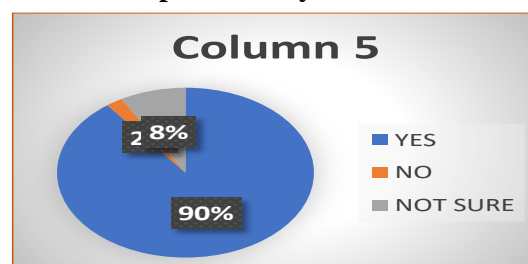

Figure 5 shows that the majority (90%) have voted YES

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and they agree that technology can be further integrated into workforce,a minority of respondant (2%) have voted NO, whereas a small portion of respondants (8%) have voted NOT SURE.

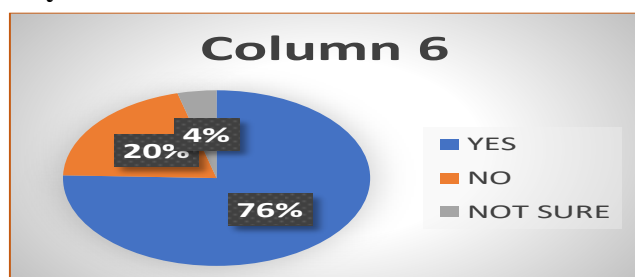**6. How important is a positive work environment to you?**

Column 6

Figure 6 shows that the majority (76%) have voted YES and they agree that positive work environment is very important, a small portion of respondants (20%) have voted SOMEWHAT IMPORTANT, whereas a minority of respondants (4%) have voted NOT IMPORTANT.

7. Do you think positive work environment impact teamwork and collaboration?
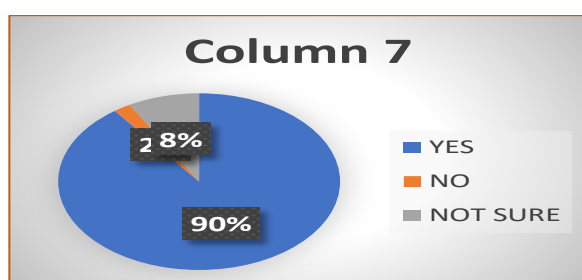

Column 7

Figure 7 shows that the majority (90%) have voted YES and they agree that positive work environment impact teamwork and collaboration, whereas a small portion of respondants (2%) have voted NO and a minority of respondants (8%) have voted NOT SURE.

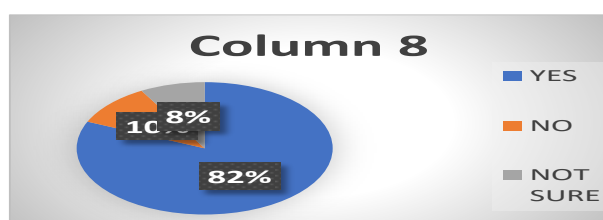**8. Does positive work environment affect your job satisfaction and retension?**

Column 8

Figure 8 shows that the majority (82%) have voted YES and they agree that positive work evironment affect job satisfaction, whereas a small portion of respondants (10%) have voted NO and a minority of respondants (8%) have voted NOT SURE.

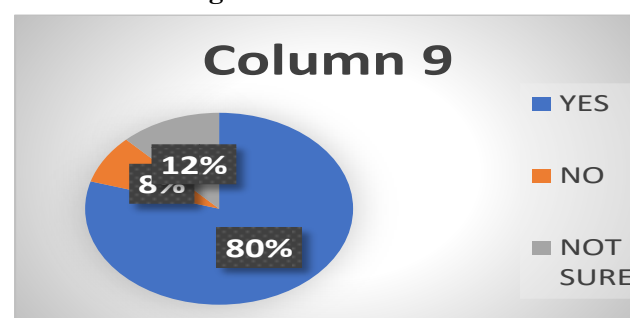**9. Does positive work environment impact your oveall well-being?**

Column 9

Figure 9 shows that the majority (80%) have voted YES and they agree that positive work environment impact your overall well-being,whereas minority of respondants (8%) have voted NO and a minority of respondants (12%) have voted NOT SURE.

10. Does technology support customization of learning experienceses for students?
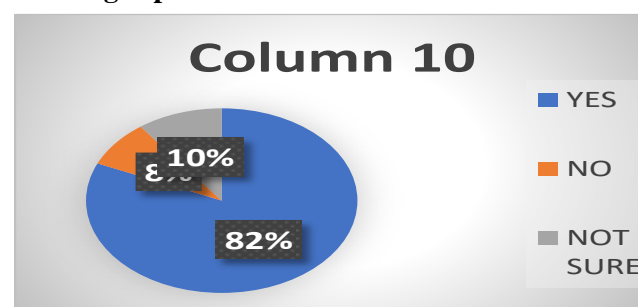

Column 10

Figure 10 shows that the majority (82%) have voted YES and they agree that technology support customization of learning experiences for students, whereas a small portion of respondants (8%) have voted NO and a minority of respondants (10%) have voted NOT SURE.

Conclusion:

The integration of technology in education is pivotal for shaping effective learning and teaching processes. Through interactive tools and multimedia, technology

enhances the overall learning experience, fostering self-directed learning and critical thinking skills. This adaptability is crucial in a rapidly changing job market. Remote education becomes accessible, breaking down geographical barriers and increasing opportunities for quality learning. Beyond academics, technology plays a vital role in preparing students for the workforce, emphasizing the acquisition of relevant technical skills. The global connectivity facilitated by technology enables collaboration with peers worldwide, providing diverse perspectives. In tandem, the creation of a positive work environment is emphasized, where engaged, valued, and empowered employees contribute to enhanced productivity. Understanding the importance of technology in education is fundamental in this era of digital transformation, as it develops future-ready skills and promotes engagement. The multifaceted impact of technology on work involves both enabling and replacement technologies, influencing the dynamics of the workforce. Overall, the role of educational technology, or Ed Tech, is defined by the Association for Educational Communications and Technology as the ethical practice of facilitating learning through appropriate technological processes and resources. This integration opens up new possibilities, creating dynamic learning environments that prepare students for success in the twenty-first century.

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