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EDUCATION AND MODERN TECHNOLOGIES, THEIR POSITIVE AND NEGATIVE IMPACT

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ABSTRACT

The purpose of this research paper is to delve into the complex web of connections between education and contemporary technology by looking at the good and bad effects of these developments on the field of education. Traditional pedagogical practices and classroom settings are being transformed by the widespread adoption of technological solutions in the field of education. This study will explore the several aspects of this relationship, looking at how technology has affected teaching methods, student participation, information availability, and educational results as a whole. Also covered in the research will be worries about problems and downsides that may come with using technology in schools on a large scale. In today's world, the way people learn is being shaped by the close relationship between education and current technology. Accessibility, flexibility, and interaction are three areas where technology has clearly improved education. Distance is no longer an obstacle to study thanks to online resources such as virtual classrooms and educational applications. In addition, technology allows for more customised learning experiences, which are great for students with varying learning speeds and styles. On the other hand, there are certain problems and unintended effects that come with using technology in the classroom. When people's access to technology is unequal, it exacerbates preexisting educational disparities and creates a digital gap. Furthermore, others worry that technology may eventually supplant more conventional forms of instruction, leading to a decline in students' capacity for critical thinking and interpersonal communication. Problems like information overload and short attention spans could be exacerbated by relying too much on technology. Although new technology has made education more accessible and personalised, it has also brought up certain problems including the digital divide and the possible loss of important skills. To fully utilise technology in education, we must find a way to embrace its great aspects while also minimising its negative effects.

Keywords: Technologies, Education, Negative

Introduction:

The transition from analogue to digital mediums has been a revolutionary journey that has been reflected in the emergence of contemporary technology in education, which has unfolded throughout three different historical periods. Following the use of audiovisual aids in classrooms, the educational landscape underwent a paradigm change with the advent of educational television and early computer-assisted teaching programmes. This transition occurred in conjunction with the introduction of audiovisual aids. It was the following growth of the internet in the latter part of the

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20th century that played a vital role, indicating a substantial change towards online learning, elearning platforms, and Massive Open Online Courses (MOOCs). As technological advancements proceeded, the integration of personal devices such as smartphones, tablets, and other electronic gadgets grew more widespread, which resulted in the development of mobile learning and educational applications. At the moment, artificial intelligence, virtual and augmented reality, and cloud-based platforms are at the forefront of innovation, and they are designing learning experiences that are both immersive and collaborative. At the same time, educational institutions are becoming more and more dependent on digital tools and platforms. Learning Management Systems (LMS) like Moodle, Canvas, and Blackboard make it easier to organise courses, and online collaboration platforms like Google Workspace and Microsoft 365 make it easier to communicate with one another and work together on projects. The proliferation of Open Educational Resources (OER) and the incorporation of gaming into educational activities are two more factors that contribute to the growing digital toolbox in the field of education. An emerging trend in the modern day is the use of cloud-based platforms for the storage and accessibility of educational resources. These platforms make it possible to streamline the process of document sharing and collaboration. This trajectory highlights the dynamic and continual integration of contemporary technologies, highlighting the vital role that these technologies play in transforming the educational environment to meet the demands of the 21st century.

The growing dependence on digital tools and platforms in educational settings is indicative of a fundamental shift in the ways that are taken to teaching academic content. When it comes to organising and delivering course materials, tracking student progress, and fostering communication, Learning Management Systems provide instructors with a centralised centre that streamlines these processes. In particular, the emergence of virtual classrooms and technologies for video conferencing has become increasingly noticeable, particularly in the context of online and distant learning. These platforms not only break down geographical barriers, but they also make it possible for students and teachers to engage in real time, which helps to cultivate a feeling of community among the two groups. The introduction of Open Educational Resources has made it easier for students all around the world to have access to high-quality educational resources, therefore lowering the obstacles that prevent them from doing so. Students are now able to work together smoothly across borders and time zones thanks to the transformation that online collaboration tools have brought about in group projects and assignments. Increasing student engagement, motivation, and learning outcomes may be accomplished through the utilisation of gamification tactics and educational applications that capitalise on the intrinsic attraction of technology. It is becoming increasingly common for students to bring their own personal gadgets into the classroom, and teachers are being faced with the responsibility of utilising these resources to provide dynamic and engaging classes that cater to a variety of individual learning styles.

There are also substantial issues that arise as a result of the growing reliance on technology in educational settings. The digital gap is still a problem that needs to be addressed, since discrepancies in access to technology and internet connectivity are a contributing factor to the unequal distribution of educational opportunities worldwide. As a result of the fact that educational technology entails the gathering and storage of sensitive student information, concerns around data privacy and security have gained significance. Furthermore, the possibility that technology would supplant conventional methods of instruction raises concerns regarding the overall development of pupils, including their capacity for critical thinking and their ability to interact with others. The mutually beneficial link that

exists between education and contemporary technology has resulted in significant shifts in the ways in which teaching and learning are carried out. The negative consequences require careful analysis and proactive solutions, despite the fact that the good benefits are readily apparent in the form of increased access, creative pedagogies, and chances for collaborative work. In order to ensure that education continues to develop in a manner that is inclusive, adaptable, and prepares students for the complexity of the digital age, it is essential to find a balance between utilising the benefits of technology and tackling the issues that it presents. Because the junction of education and technology will continue to affect the future of learning, it will be vital to do ongoing study and make a commitment to adaptation throughout this process.

Objectives

- 1. To examine the beneficial effects of contemporary technology on the field of education.
- 2. To investigate the problems and drawbacks of integrating technology.

Positive Impacts:

Enhanced Learning Opportunities

Through the use of contemporary technology in educational settings, the scope of learning opportunities has been greatly enlarged, therefore ushering in a new era that is characterised by adaptability and interaction. This revolution has resulted in the democratisation of education through the elimination of geographical boundaries and the provision of access to a wide variety of disciplines. One notable aspect of this shift is the online course. Virtual classrooms, which are another fundamental component of improved learning, provide students with a dynamic environment in which they may interact with the materials of the course and participate in real-time conversations with their teachers and classmates. The introduction of interactive educational content, which may take the form of anything from multimedia presentations to simulations, has improved the quality of the learning experience by rendering intangible ideas more concrete and interesting to the student. Personalised learning experiences are made easier by the use of technology in education, which is one of the most noteworthy advantages of educational technology. The use of data analytics by adaptive learning systems allows for the customisation of educational content to the specific needs of individual students, taking into account their unique strengths, limitations, and preferred approach to learning. Because of this personalisation, students are able to advance at their own speed, which helps them to reinforce their grasp of ideas before going on to the next step. This increases both engagement and comprehension. The adaptation of these technologies to a variety of learning styles further adds to an educational environment that is more inclusive. This environment acknowledges and accommodates the many ways in which students take in and process information. In essence, the incorporation of contemporary technology has not only expanded the range of learning opportunities, but it has also opened the way for a more individualised and adaptable educational experience.

Increased Access to Information

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The incorporation of contemporary technology into educational settings has ushered in a revolutionary change, particularly with regard to the availability of information, hence establishing a period of increased information availability that has never been seen before. The introduction of the internet has been a significant factor, as it has completely altered the manner in which students and teachers get access to information. The resources available on the internet, which include anything from scientific publications to multimedia content, have evolved into extremely useful tools for study and education. Learners now have the ability to investigate a wide variety of topics because to the democratisation of knowledge, which allows them to develop their curiosity and engage in self-directed research.

As a result of the internet's ability to allow worldwide connectivity, geographical borders have been overcome, which has led to increased opportunities for cross-cultural communication and cooperation. Students now have the capacity to interact with classmates, teachers, and specialists from all over the world, which results in the dismantling of cultural barriers and the enhancement of their educational experience via the incorporation of multifaceted viewpoints. In today's educational system, virtual collaborations have become an essential component. These collaborations are made possible by platforms that allow for real-time communication and the collective completion of projects. Not only does this connection improve students' awareness of diverse cultures, but it also prepares them for a globalised society in which the ability to collaborate and communicate across boundaries is a crucial talent. A major shift in the educational paradigm has occurred as a result of the greater access to knowledge that is becoming available through the resources of the internet and global connectedness. Learners are provided with a variety of knowledge, they are encouraged to engage in autonomous discovery, and they are cultivated with a global perspective, which is essential for achieving success in the interconnected and information-rich world of the 21st century.

Improved Collaboration and Communication

In the realm of education, the incorporation of contemporary technology has ushered in a new era of greater cooperation and communication, therefore changing the relationships that exist between students, teachers, and parents among themselves. Powerful facilitators have developed in the form of digital platforms, which have the ability to bridge communication distances and create learning communities that are interconnected. Students have the ability to communicate with one another, engage with teachers, and keep their parents updated about their academic achievement through the use of these platforms, which give a seamless way of doing so. These digital communication channels contribute to an educational atmosphere that is more inclusive and supportive of its students by providing openness and accessibility.

Teamwork and project-based learning have become significantly more effective because to the proliferation of collaborative technologies. Students are now able to participate in collaborative projects regardless of their physical proximity to one another by utilising online platforms that allow for the modification of shared documents, collaborative conversations, and feedback in real time. Not only does this provide an opportunity to develop critical skills for cooperation, but it also represents the collaborative nature of many professional institutions. Furthermore, these tools make it possible for teachers to create classes that are interactive and participative, which helps students develop a feeling of community and gives them a sense of shared responsibility.

The trend towards increased cooperation and communication is not confined to the classroom; rather, it extends to the relationship that exists between teachers and parents. Using digital platforms, parents are able to maintain a direct channel of contact with their children, which enables them to be updated about their child's academic achievement, forthcoming tasks, and general well-being. As a result of this greater connectedness, the triangle relationship that exists between students, teachers, and parents is strengthened, which then helps to promote an approach to education that is collaborative. The educational environment has been reimagined as a result of the incorporation of digital platforms for communication and collaboration tools, which has resulted in the development of a culture that emphasises connectedness, teamwork, and shared intellectual experiences. Not only do these technological innovations make the learning experience more enjoyable, but they also help students get ready for a society that values collaboration and communication outside the confines of the classroom.

Innovative Teaching Methods

An educational paradigm shift has occurred as a result of the incorporation of contemporary technology into the educational system. This has paved the way for the development of novel teaching strategies that are able to engage and inspire students. The conventional bounds of the classroom experience have been redefined as a result of the emergence of transformational tools like as gamification, virtual reality (VR), and augmented reality (AR). Through the utilisation of game features and ideas, gamification incorporates aspects of competition, prizes, and interaction into educational content. This has the effect of making learning more entertaining and motivating for students enrolled in educational programmes. The use of virtual reality and augmented reality, on the other hand, offers immersive experiences that go beyond the conventional ways of instruction. The use of virtual reality allows students to be immersed in computer-generated worlds that are incredibly realistic. This provides students with the opportunity to participate in virtual field trips, historical recreations, or sophisticated scientific simulations. By superimposing digital information onto the surroundings of the actual world, augmented reality can improve the quality of the educational experience. This can be accomplished by including interactive components into textbooks, developing three-dimensional models, or conducting virtual dissections.

The use of technology to enable simulations is another part of creative teaching techniques. These simulations provide students with opportunities for hands-on and practical learning experiences inside a digital environment that is both regulated and risk-free. Students are able to apply their theoretical knowledge to actual problems through the use of simulations, which may duplicate real-world settings in subjects like as science, engineering, and healthcare. The students are more prepared for the complexity of their particular disciplines as a result of this, which not only improves their comprehension but also serves as a bridge between theoretical concepts and their practical applications. Recognising the wide variety of learning styles and preferences among students is made possible via the implementation of these cutting-edge instructional strategies. Learning experiences that are dynamic and engaging may be created by educators by adding aspects of play, exploration, and practical application. These experiences can be tailored to meet the requirements of a generation that is proficient in technology. As technological advancements continue, these instructional strategies provide a view into the future of education, which will be characterised by the incorporation of immersive and interactive experiences as fundamental elements of the educational process.

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Negative Impacts:

Technological Inequities

The continuing problem of technical disparities continues to be a substantial obstacle, despite the fact that technology has had a favourable influence on education. There are disparities in access to technology and internet connectivity, both of which contribute to a problem that is usually referred to as the "digital divide." This divide is frequently driven by socioeconomic circumstances, which results in a disparity in the availability and accessibility of technology resources across various demographic groups. There is a broad range of variation in students' access to technology, which may be attributed to factors such as their socioeconomic status, geographic location, and the resources provided by their educational institutions. There is a possibility that pupils in more affluent neighbourhoods have access to the most recent electronic gadgets, high-speed internet, and a variety of digital tools. Students in economically poor communities, on the other hand, may not have access to these resources, which can lead to difficulties in completing assignments, gaining access to online educational materials, and participating in virtual classrooms.

There is a significant contribution made by socioeconomic variables to the perpetuation of the digital divide. For educational purposes, families with greater means are in a better position to afford to give their children with personal gadgets, internet subscriptions, and the software that is required for these purposes. On the other side, families with lesser incomes may have difficulty providing these resources, which may impair their children's capacity to fully engage in learning that is facilitated by technology. Not only does this digital gap have an impact on the academic achievement of pupils, but it also serves to exacerbate the social and economic disparities that already exist. It is necessary to take a multi-pronged strategy in order to address technological injustices. This approach should include governmental efforts, community participation, and collaboration between educational institutions and technology companies. To ensure that all students have the chance to take advantage of the educational benefits that current technologies have to offer, efforts should be focused on giving equitable access to devices, ensuring that internet connectivity is dependable, and offering instructions on how to become proficient in digital literacy. For the purpose of developing a more equitable and inclusive educational system that equips students from all walks of life with the tools necessary to succeed in the digital era, it is crucial to successfully bridge the digital gap.

Overreliance on Technology

An excessive dependence on technology raises legitimate worries about its influence on interpersonal skills and the unintended repercussions of replacing conventional teaching techniques. This is despite the fact that the incorporation of technology into education has resulted in a multitude of positive outcomes. A key factor to take into account is the possibility that students' interpersonal skills would suffer as a result of the rising use of digital technology in classrooms. It is possible that face-to-face interactions will be restricted due to the immersive nature of technology, notably in virtual classrooms and online learning settings respectively. The interpersonal components of learning, such as non-verbal communication, group dynamics, and the development of critical social skills, may be overlooked by students via the use of this method of instruction. An over dependence on technology may unwittingly impair the growth of interpersonal competences, which are essential for both personal and professional success. The capacity to successfully interact and work with peers is essential for both individual and professional success.

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It is possible that the quality of education might be affected by the unexpected effects that arise from the replacement of traditional teaching techniques with digital education. In spite of the fact that technology provides novel tools and methodologies, it need to be used in conjunction with conventional instructional practices rather than completely replacing them. A lack of balance in educational methods may result from an excessive reliance on digital platforms. This may result in the exclusion of vital parts of in-person instruction, mentorship, and hands-on experiences, all of which contribute to a well-rounded education. Educators and policymakers have the responsibility of striking a careful balance between using the benefits of technology and maintaining the fundamental components of conventional teaching methods. For the sake of preserving a comprehensive educational experience, it is essential to acknowledge the significance of interpersonal skills, collaborative learning, and direct contacts between teachers and students. Efforts should be geared towards incorporating technology as a supplemental tool that complements conventional teaching techniques rather than replacing them. This will ensure that students learn a comprehensive skill set that will prepare them for the requirements of the modern world, which are multidimensional and complex.

Privacy and Security Concerns

Significant privacy and security problems have arisen as a result of the increased adoption of technology in educational settings, particularly with regard to the gathering and management of information pertaining to students. Educational technology frequently entails the use of a wide variety of digital tools, platforms, and apps, all of which need the gathering, storing, and processing of sensitive student data. When it comes to the usage of technology in educational settings, it is necessary to address these privacy and security concerns in order to keep the confidence of students, parents, and teachers. In the realm of educational technology, concerns around data privacy are among the most significant. As students learn via the use of educational applications and online platforms, there is a possibility that their personal information might be accessed inappropriately or misused by unauthorised parties. The information that falls within this category may contain private details like names, residences, academic records, and even biometric information. In order to safeguard students against identity theft, cyberbullying, and other criminal actions that may abuse their personal data, it is essential that this information be protected.

More than only the possibility of data breaches, the hazards that are involved with the gathering and storage of student information are extensive. In order to prevent unauthorised access, guarantee that data is encrypted, and set explicit standards for the preservation and disposal of data, educational institutions and technology suppliers are required to adhere to stringent security measures. When student information is handled improperly, not only does it put individuals' right to privacy at danger, but it also creates a wider threat to the safety and reliability of educational institutions. In order to address these issues, it is very necessary for educational institutions to put in place detailed policies and procedures for the security of personal information. The implementation of comprehensive privacy assessments prior to the implementation of new technologies, the guarantee of compliance with applicable data protection rules, and the provision of communication that is both clear and transparent to students and parents regarding the utilisation of their data are all included in this. In addition, it is vital to cultivate a culture of digital literacy and responsible data usage within the educational community in order to provide stakeholders with the knowledge that is required to

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traverse the digital world in a secure manner. It is possible for educational systems to reap the benefits of technology while simultaneously protecting the sensitive information that has been entrusted to them if they place a priority on privacy and security.

Distractive Influences

While there are a great number of benefits connected with the incorporation of technology into educational settings, there are also a number of issues that are related with the possibility of distracting impacts on pupils. One of the key concerns is the influence that surroundings that are rich in technology have on the ability of kids to concentrate and pay attention. As a result of the draw of digital gadgets and the variety of information available online, students may find themselves engaging in more multitasking, which in turn lowers the level of attention they devote to their educational responsibilities. It is possible that the continuous notifications and alerts, as well as the desire to move between programmes, may lead to a fragmented learning experience, which may hamper cognitive engagement and deep knowledge. The possibility of spending more time in front of screens and being distracted by digital devices is a related problem. There is a possibility that students may spend an excessive amount of time in front of screens, both for academic and entertainment purposes, as the integration of digital platforms into educational activities becomes more prevalent. Extended periods of time spent in front of a screen have been linked to adverse effects on physical health, such as eye strain and disturbed sleep patterns, in addition to the possibility of adverse effects on mental wellbeing must be considered. It is vital to strike a balance between the advantages of technologyenhanced learning and the requirement of developing good habits around screen time in order to avoid these negative repercussions. An strategy that is both deliberate and balanced is required in order to address these difficulties. Educators and policymakers have a responsibility to be aware of the need of developing learning experiences that make use of the benefits that technology offers while also actively supporting techniques to minimise the effect of distracting factors. Among these include the incorporation of mindful technology usage practices into the curriculum, the teaching of skills for time management to students, and the encouragement of periodic breaks to avoid screen weariness. It is also possible to empower kids to make deliberate decisions regarding their technology usage and to maintain a healthy balance between screen time and other activities by cultivating a culture of digital well-being, which may be done both at home and in educational institutions. It is possible for educators to maximise the educational benefits of technology while also cultivating a holistic learning environment that places a priority on the well-being of their students if they take proactive measures to remove distracting factors.

A comprehensive picture arises as a result of the synthesis of the data about the incorporation of modern technology in educational settings, indicating that there are both good and negative impacts. On the bright side, the widespread use of technology has produced a considerable increase in the likelihood of educational possibilities. Education has been democratised through the use of online courses, virtual classrooms, and interactive educational content, which has provided users with flexibility and accessibility. As a means of responding to the specific requirements of each individual student, personalised learning experiences and flexibility to a variety of learning styles have emerged as essential criteria. Furthermore, improved access to information through online resources has resulted in the creation of a wealth of knowledge, which has fostered global connectedness, cross-cultural interchange, and collaboration among students. Critical difficulties that require attention are brought to light by the negative repercussions. Inequalities in technology, which are characterised by

differences in access to technology and internet connectivity, give rise to worries about the possibility of current socioeconomic inequalities becoming even more pronounced. Because of the excessive dependence on technology, there is a possibility that students will lose their ability to interact with others and that conventional teaching techniques will be replaced. This might lead to disregarding the holistic parts of education. When it comes to protecting sensitive student information, the need for robust policies and practices is brought to light by issues over privacy and security, particularly those that are associated with the processing and protection of data. Additionally, the potential for distractive influences, such as difficulties with focus and attention, as well as the danger of increasing screen time, need a balanced approach to the integration of technology in order to offset the negative effects on the well-being of students. The compilation of studies highlights the revolutionary potential of current technologies in education, which provide access, adaptability, and cooperation that have never been seen before. However, it also highlights the significance of addressing challenges such as technological inequities, excessive reliance on technology, concerns regarding privacy, and distractive influences in order to guarantee a balanced and inclusive educational landscape that maximises the benefits of technology while mitigating its potential drawbacks. For the purpose of cultivating a learning environment that is not only technologically sophisticated but also egalitarian, secure, and beneficial to the whole development of students, it is essential to strike this balance.

Recommendations

A multidimensional strategy is advocated in order to maximise the beneficial effects that technology may have on education while simultaneously minimising the possible negative effects that it may have. First and foremost, in order to solve technological disparities, it is necessary to implement specific efforts and collaborations in order to bridge the digital gap. This will ensure that everyone has access to devices and dependable internet connectivity. The integration of digital literacy into the curriculum, the promotion of appropriate screen time, and the encouragement of a mix of traditional and technology-enhanced teaching techniques are all components of a balanced approach to the use of contemporary technology. For the purpose of enhancing privacy and security measures, it is necessary to design and implement stringent data protection regulations, in addition to providing regular training for teachers, students, and parents. As part of the process of fostering creativity and adaptation, educators should be supported in their exploration of creative teaching approaches, and continual professional development should be strongly encouraged. In conclusion, it is essential to involve stakeholders in the process of integrating technology by means of cooperation and open communication in order to align the process with the values and requirements of the educational community. Recognising the ever-changing nature of technology, it is crucial to conduct continuing research projects in order to provide educational practices with the necessary information and to guarantee that they are responsive to the ever-changing technological scene. The goal of this allencompassing method is to provide an educational setting that is not only productive but also ethically sound, and that makes the most of the advantages that technology offers while also addressing the issues that it presents.

CONCLUSION

The introduction of contemporary technology into educational settings has ushered in a period of profound change, bringing with it opportunities that have never been seen before while also

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presenting substantial obstacles. The positive effects, which include expanded possibilities for learning, increased access to knowledge, enhanced cooperation, and creative teaching approaches, are evidence that the educational environment has the potential to undergo a revolution. This growth, however, is not without its negative implications, which include technical disparities, an over reliance on technology, worries regarding privacy, and influences that are distracting. In order to effectively negotiate this complicated terrain, it is absolutely necessary to take a strategy that is both thoughtful and deliberate. Among the recommendations are the following: addressing technological inequities through targeted initiatives; promoting responsible technology use in order to balance the benefits and drawbacks of technology; enhancing privacy and security measures; fostering innovation while maintaining adaptability; and engaging stakeholders for collective decision-making. The significance of continuous study and adaptation cannot be emphasised since it helps educational institutions to keep up with the latest technology breakthroughs and to make decisions that are well-informed and in line with the ever-changing requirements of both students and teachers. Prioritising fairness, inclusion, and ethical concerns is very necessary if we are to achieve our goal of creating an educational environment that capitalises on the beneficial effects of technology while simultaneously minimising its negative effects. If we take these steps, we will be able to establish a setting in which technology is transformed into a potent instrument that assists in the empowerment of students, the promotion of cooperation, and the preparation of students for success in the dynamic and interconnected world of the future.

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