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Digital Transformation in Commerce Education: Challenges and Opportunities

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Abstract: Almost every aspect of trade, manufacturing and commerce has led to a radical change as a result of liberalization and globalization of the Indian economy. The remarkable expansion of the ecommerce initiative during the last few years was unprecedented in speed and size. 2020 has proved to be a difficult year. Recent years have seen an increase in interest in the use of Artificial Intelligence (AI) in education, as currently has the ability to completely change the way teaching and learning. Artificial Intelligence (AI) technology can enhance the learning process by providing an analogy response to students and by providing them access to a broad array of educational resources. In addition, teachers can improve the results by modifying their academic techniques with the use of AI-operated technology, which provides them with real-time response and students' learning. AI can also help teachers to assign grade and assess the student's work, making them free their time to focus on other important aspects of teaching. Even after COVID-19 in the last ten years, there has been a lot of upheaval in the education sector. There has been a significant change in traditional classroom learning techniques as digitization has captured the traditional education system. From online classes and virtual tuition to interactive learning platforms - In various ways, digital resources are being included in the educational process. We will learn more about it in this research paper to help you understand the situation of the education industry today and your company needs digital changes in this field Commerce, education, e-commerce, internet-based learning, digital changes in education, digital classes, features of distance education, before and after COVID-19, digital classes, opportunities and challengeszz.

Keywords: Commerce, education, e-commerce, internet-based learning, digital changes in education, digital classes, features of distance education, before and after COVID-19, digital classes, opportunities and challenges

I. INTRODUCTION

Business:

Business is the transfer of goods and services between individuals or businesses. A deal of commerce is a good, exchange of wealth for a piece of service or knowledge. The Internet and an effective postal system have made international commerce convenient for people along with business. Education:

Education is about helping students develop their congenital skills and abilities. The deliberate transfer of knowledge, skills and values from the current generation to the future is known as a transmission process. Those who were unable to participate in a campus program have greatly benefited from the availability of online resources. Cyber law Research now has more options because for e-commerce education. It goes without saying that the importance of cyber rules has increased considerably in recent years.

E-commerce:

E-commerce is to trade contemporary communication devices such as internet, fax machine, phone, electronic data interchange, electronic payment, and money transfer system. E-commerce provides many advantages to customers, including more options, low prices, and rapid delivery time. With just a mouse click, consumers can buy things without

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leaving their homes or business places. Similarly, customers have benefited greatly from online services like internet banking, airline, train, bus bill payment, hotel booking, and so on. Higher education has been deeply affected by the amazing effects of e-commerce education. There has been a significant increase in internet usage in the last few decades, which has had significant impact on institute research and communication. Given the incidents of hundreds of cybercrime every day, understanding of familiarity and familiarity with the Internet has increased. A commercial education provides students' access and expertise access to the most recent developments in professional development along with information and expertise.

Internet Based Education:

It has become an important educational tool. Online and remote learning is quickly becoming a great option for students in India, as traditional class settings are becoming more and more expensive. E- learning opportunities in India are abundant. Even distant learning programs are doing a great job. There are many different ways to reach distance education, including interactive CD-ROM programs, mobile learning programs, tele course or broadcasting courses radio or television, postal correspondence programs and many more.

Digital Revolution:

All infections known as "Digital Transformation" include online platforms, instructional software and in inclusion of digital resources, which equally increase the educational experience for all teachers and students. Prominent examples of educational technology include virtual classrooms, electronic books, online learning and educational applications. The use of technology in the classroom is the main force behind the huge changes in higher education. This change has a significant impact on both students 'learning strategies and teachers' educational approach. It was necessary to provide students with more personal, dynamic and successful learning environment to prepare them for life in the digital age. Current trends in digital change of education sector Prior to COVID in 2018, about 35.3% of the American college students studied online as part of their degree. In 2020, sudden outbreak of Corona virus accelerated online education as social dispensing and lockdown learned the only option online. Improvements in digital technology are the only way to influence students and trends through online learning. Therefore, the education sector has been greatly affected by technological development. Let's find out the current trends in the digital change of education sector.

• Universal Access Promoted access education is one of the most promising digital changes subjects in education. The progress of technology makes it easy to get information from many places. Using online learning options, students can participate in universities and courses of study that may not be closed. The boundaries of a student's immediate geographical area are no longer applicable.

• Artificial Intelligence (AI) Equipment for Artificial Intelligence (AI) gives students a panoramic educational experience. Text-to-wise technology can help children who have reading issues, such as schizophrenia. General questions of students can be addressed by chat bots, similar to FAQ, which students are helpful in maintaining focus when learning. Additionally, it adds enthusiasm to the orbit as it allows students to go deep into subjects that they are interested in. Equipment for Artificial Intelligence (AI) gives students a panoramic educational experience. Text-to-wise technology can help children who struggle with dyslexia or other reading difficulties. General questions of students can be addressed by chat bots, similar to FAQ, which students are helpful in maintaining focus when learning. Additionally, it adds enthusiasm to the orbit as it allows students are helpful in maintaining focus when learning. Additionally, it adds enthusiasm to the orbit as it allows students are helpful in maintaining focus when learning. Additionally, it adds enthusiasm to the orbit as it allows students to go deep into subjects that they are interested in.

• Adaptation

Individual teaching strategies have also been an important part of the education sector digital infection. Many educational institutions and schools have felt the importance of offering flexible solutions that take into account the strength and weaknesses of each student. Both students and educational institutions can benefit from stitching courses to meet personal learning needs. Whenever it suits, the freedom of learning to students helps to absorb them and remember more information. In addition, adaptation gives individuals the ability to move forward in their learning. Therefore students are motivated to complete their degrees and become eligible for further studies and employment.

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• Virtual Realities

Virtual realities have become an important component of every region. Virtual reality in education gives students an opportunity to detect material before coming into practical applications. For example, most methods and procedures are performed by medical students; with the help of virtual reality, they can experience technology and learn it practically before practicing in real life.

Gamification

Gamification is pleasant; Allow gamified teaching strategies to learn students in the most effective way to learn the most effective way. Game-based components such as badges, points, diplomas, incentives, and more are a part of gamification. Although it can be used in based-schooling, self- teaching applications and courses that increase the busyness of the student, also widely use it.

• Bottom line Infections from on-campus to remote learning have changed the face of education. The education sector digital change has greatly benefited both trainers and students. To increase the effectiveness and connectivity of material techniques, access to all must improve. Therefore, learning in the future will be different as a result of digital change in the education sector. An important part of the change in online education has been played by the LMS sector. Millions of users have benefited from online teaching techniques from the spontaneous support and quick infection of Paradiso LMS. Customize worldwide is easily enhanced by user -friendly interfaces and learning of ELearning Solutions.

Features of Digital Classroom:

- Affordable
- Accessible
- Easy of Teaching Process
- Interactive
- Flexible Learning
- Upgrade Learning
- Innovative Content
- Collaborative

II. LITERATURE REVIEW

Integration of digital technology in the education sector, especially commerce education, has re - shaped traditional learning patterns to a large extent. Many studies throw light on how digital changes have opened new dimensions in the access, distribution and privatization of learning materials.

Third Rock Tekcheno (2023) defines digital changes in education as an inclusion of digital technology to modernize teaching, course design, learning environment and student engagement strategies. They emphasize that equipment, such as the Learning Management System (LMS), Artificial Intelligence (AI), and virtual learning platforms are redefined again.

Magenst (2022) explains the importance of personal learning paths in commerce education, which highlights adaptive teaching technologies that meet various teaching pace and styles. They also find out the benefits of digital infrastructure to track the student's performance, reduce administrative burden and improve cooperation among stakeholders. According to UNESCO (2020), despite the push for digital changes, major challenges remain - especially digital equity, infrastructure boundaries and lack of teacher preparation. Their global education monitoring reports reports that rural students face difficulties in accessing high -speed internet and modern equipment, which disrupts the same access to online commerce education.

III. RESEARCH METHODOLOGY

This study appoints secondary research methodology, which focuses on the case study related to qualitative material analysis of existing literature, official reports and digital changes in commerce education.

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Data Collection Source:

• Government Report and Education Policies (eg, National Education Policy, UGC Guidelines)

- •Reports from EdTech companies (Paradiso LMS, Magenest, KPM
- Online database and education technology blog
- Websites like UNESCO, AICTE and Ministry of Education

Research Approach:

• Descriptive and discovery: Paper wants to describe the current digital trends in commerce education and detects both the challenges and opportunities that come with these changes.

• They thematic analysis: Data were reviewed and classified into topics such as digital access, infrastructure, AI and VR use, teacher readiness and personal learning.

• Comparative reviews: East and after COVID -19 are compared to understand the change in digital adoption in commercial education.

Benefits of Digital Education:

• Tracking of Student Results:

One effect of digital infection in education is that it provides a more practical means of tracking the progress of students. Computer, internet and innovation can be a valuable tool for students' work recording information, allowing parents and teachers to monitor their progress. For example, manual or creative functions can be compared to time - time materials that have already been recorded digitally. It helps to identify who is improving and who needs more attention.

• Better Results with Data Analytics

Organizations already use such interactive tools, so why are students not trained for them before becoming an employee?

• Future-Focused Courses

Teachers need to teach future courses. Automation, robotics and AI are no longer subjects in science fiction films. The heavy weight of the evidence indicates that the needs of the workforce are developing and will possibly increase significantly in the future, but the organization is not equipped to train them fully. The update of the course can be made and upgraded in a few months. Students have more access to relevant and regular updated materials. Rapid upgradation and functionality required daily access to fresh content and functionality.

• Promoted Coordination between Parents and Teachers

Studies show that when parents support their children's intellectual achievement, children perform better in school and are generally healthy. The automation electronically sends the parents and comments, reminding them to pay the fees when the time comes. You can also feel safe about your child's safety because the bus seen from anywhere, and children are always alerted when you are absent or on holiday. What if the program offered a useful career guidance solution, which suggests a career based on the metrics that determined the strength and boundaries of each student?

• Time savings: In the modern world, when time is money, digitization is a huge time saving. Many cities still lack complete integration between subway systems and rest of the transport infrastructure. Students have to travel for hours to meet their educational facilities. In this case, digital instructions are a lifesaving for students from the most remote areas of the nation. Unisa and Gate Hoshiar have successfully implemented this strategy to international borders. Instead of spending a long time on the road, everyone has to click on a website or watch satellite TV to learn a subject.

Advantages of Digital Education for Students:

- Personalized Learning
- Makes students acquainted with digital technologies and tools.
- Deeper involvement of Teachers and parents.
- Better engagement rate.
- · Makes students more accountable.

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- Extensive learning opportunities.
- Motivates Students and makes students smarter.

Opportunity:

Bachelor of Commerce is a three -year, full -time graduate program. And postgraduate master of commerce degree. After completing a study in commerce, a student can work as an expert in any government agency or private institution. They can also perform professional courses for company secretary, chartered accountant and ICWA. A commerce graduate can choose to work in financial services as a budget advisor, budget advisor, stock broker, merchant banker, financial portfolio manager or financial advisor. Additional management-related sectors that offer career opportunities include personnel, production, and financial, marketing and material management. Other management-related sectors include hotels, hospitals, tourism, events, offices and export/import management. There is a need for graduation in commerce and postgraduate with focus on banking in the bank. Insurance companies can contact recent graduates with focus on insurance as well as focus on graduates in commerce. Graduates in Commerce and postgraduate, specialization in accounting including computer technology are also required by postgraduate, industrial sector.

Digital Changes of Education

In order to successfully implement the digital revolution in the online teaching field, many obstacles will be included, including:

• Inadequate technical knowledge:

It is possible that a large number of teachers are lacking technical information to successfully integrate technology in the classroom.

Restricted technical access

A digital divide may not have access to the technology required for some students and teachers, making it more difficult to execute digital changes.

• Resistance to change:

The acceptance of digital change can be slowed by trainers who are reluctant to include technology in their text plans. In fact, about 70% of public sector workers feel that they have a lack of digital capabilities of private sector workers. Despite this, many impressive policy makers oppose the next important steps towards digital maturity. Say it simply, people will get acquainted with whatever they do by step outside their rest area, resulting in dull progress and development. Many teachers are afraid of failing and are reluctant to take new techniques or methods, adjusting new cultures, technologies, or thinking methods.

• Inadequate Expertise or Capacity:

Adequate capacity, trust and abilities are necessary to promote innovation within the company. Employers in the UK are currently struggling to overcome 43% STEM (Science, Technology, Engineering and Mathematics) to overcome the increasing decrease of digital skills to fill the posts. To guarantee an innate and effective digital conversion, educational institutions should either compete to attract a limited pool of talent or use novel strategies to upgrade up-end players in UX and CX areas using cloud infrastructure.

Educational Information: Many metrics provide insight about future learners, internal efficiency, user experiences and much more than schools, colleges and trainers on this digitally advanced day. To keep it clearly, the degree of detail is precious. The issue is that, especially in the field of education, these statistics are smooth, sometimes wrong and incredible. To be able to obtain fluid, rapid, accurate and structured data, education leaders must predict information.
Lack of Instructions or Strategy:

Understanding where to go with digital changes in any field or industry is one of the main obstacles for advancement. This can be intimidating to consider the possibility of mass change, making it challenging to decide which task to advance or prepare the way the winning plan is prepared.

• System-Based Compatibility

Today's business and organizations mostly rely on technically advanced systems and infrastructure to run efficiently and beneficial on a daily basis. Not being compatible with contemporary digital technology, progressing them is an

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important issue with digital changes of education systems. Due to this inconsistency, an existing integration system is required to modify, update or replace, all of which will take time and money.

• Last Word:

Both students and teachers can develop their abilities to create an attractive learning environment by digitizing the learning process. Many aspects of education can benefit from digital changes, including online learning, intelligent schooling, student assessment, personal teaching scheme and online exam.

• Lack of Clear Strategy: If there is no plan, it can be difficult to adopt new techniques. When a large school faces difficulties in using the latest technology to complete tasks, learning and target achievement can be difficult. Developing strong strategies can help schools in making significant progress and focus on reaching your goal.

Technology Infrastructure:

As a result of the digital revolution of the education sector, new technology infrastructure and equipment are required for students, trainers and educational institutions. Educational institutions will also have to deal with the challenge of selecting a platform that provides simple integration, course writing and easy access. Consequently, to create an attractive learning culture, digital changes require a strong technical infrastructure.

• Management and Thinking:

Teachers require adaptability and managerial skills of school administrators to run such systems. They need to find out what can be done in virtual space and how technology can be used for their benefits. To master technology and recognize its limitations, educational institutions must gain knowledge and digital thinking.

• Skills in Use of Technology:

If teachers are not equipped to use technology, digital changes will not succeed. As a result, teachers need to stay in the present to monitor and assist students while learning. To ensure that the instructions go well, they also require the help of technical personnel and procedure experts. Additionally, students must continuously be upset, to remain updated with the rapidly developed sector of technology.

• Inequality:

In education Digital equity will result in unrestricted access to technology regardless of time or location. However, it can make learning more unevenly accessible to students from various backgrounds and geographical locations. For example, children who live in rural or mountainous areas will have to ban study resources and will have trouble in getting high quality education. More obstacles are as follows:

• Problems and solutions to reduce inflation and promote growth.

- Emerging concern in economy, commerce and management worldwide.
- Internationalization of financial market in the world.

• Foreign direct investment and role of foreign institutional investment. Economic sector improvement in India and abroad

- IMF and World Bank challenges and strategies for international competition.
- Merger and acquisition strategy and challenges for global trade, commerce and industry.

• Challenges and strategies for goods markets in the world and in the international context in the money market. Limitations:

• The study depends entirely on secondary data, and therefore lacks empirical field survey or interview.

• Most data is qualitative, with limited access to educational institutions to real -time analytics.

IV. CONCLUSION

Higher education was seen as becoming more and more important for the world's population as the emphasis on information and global economy increased. These days, the mobile and information technology education is advancing the industry to adapt to the needs of the moment. The most emerging dimension of business and commerce education in the 21st century is required for business Schools to integrate technology and make an important component of course materials. Today, education is a business, and knowledge is expanding in all fields and technology. Given the shifting scenario, the caliber of commerce education has emerged as an important concern for marketing. Students should obtain practical instructions according to the areas of their specialty. Through the provision of relevant and useful commerce

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education, we can help our students become competitive at the global level. The need for modern day is to be socially aware as members of society for commerce students.

REFERENCES

- [1]. https://www.thirdrocktechkno.com/blog/digital-transformation-in- education/#what-is-digital- transformation-in-education-sector
- [2]. https://magenest.com/en/digital-transformation-in-education/
- [3]. https://www.paradisosolutions.com/blog/digital-transformation-in-education-sector/#
- [4]. https://www.vsrdjournals.com/pdf/VSRDIJAECR/2015_12_December/2_P Malyadri_VSRDIJA ECR_7673_Research_Paper_1_2_December_2015.pdf
- [5]. Many more sites referred.



