Identification of the Problems Faced by Students Due to Online Education

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Abstract

In this study, all the necessary elements and aspects that are related to the online learning process have been discussed in a detailed manner to establish a better understanding of the online educational system. There is a detailed discussion about the advantages and disadvantages of the online educational system in this study. These advantages and disadvantages impact the academic career of the students both the ways positively and negatively. In this study, the positive impact of the online learning process has been discussed thoroughly and also the negative impacts have been discussed throughout the study. Apart from that, different objects that affect the infrastructure of the online educational system have been discussed in this. However, different strategies have been discussed in this study to recover the problems that are associated with the academic career of the students that get negatively affected due to the online educational system. Apart from that, secondary qualitative data collection methods have been implemented to collect data from authentic and reliable sources.

Keywords

Academic career, e-learning, infrastructure, online educational structure.

INTRODUCTION

In this digital era, the educational structures have been changed and the learning process has become online with the help of different new and effective technologies which has vastly impacted the educational structure because of these rapid changes in the system. The online learning process may become a saviour for everyone but it comes with its problems which are the educational systems of the world [1]. During the outbreak pandemic, there were lockdowns everywhere which vastly increased the usage of the online learning process and online education has positively maintained the educational career of the students by providing different e-learning apps and online educational platforms. However many students have faced its negative impacts on their academic careers but still, a projection showed the e-learning forecasts to surpass 243 billion U.S. dollars which in 2022 which has increased the educational growth of the students [2]. Hence, the study has conducted all the necessary elements that are associated with the negative impact of online education on students to improve their academic performance rate by recovering the issues.

AIM OF THE STUDY

This study aims to find out the different aspects and problems that are associated with the issues of online education and its negative impact on students.

Objectives:

- To understand the basic concept of the evaluation of the online learning process in the education system,
- To find out the problems of online education and its impact on the academic careers of the students

- To identify proper strategies to improve the quality of online educational programmes to improve the performances of the students in their academic sectors

RELEVANCE OF THE STUDY

In this digital era, the education system has changed over previous decades and has emerged with online educational courses and has diversified its effectiveness throughout the world. E-learning is the latest wave of education and it has impacted the learning process with many beneficial facilities that are associated with it. The educational instructors put in intensive work and time to design appropriate and effective instruction for the students where they need to equip themselves with technical proficiency to decode and understand the course material. However, the online educational structure has faced challenges while constructing it in the education system. Despite its positive effects, the students are negatively impacted by the online learning process which is decreasing their academic grades. Thus, in this study, all the negative impacts of online education have been discussed to establish efficient strategies to recover those issues.

MATERIALS AND METHODS

Research philosophy

Philosophical thinking strongly emphasises the clear formulation of ideas that helps to select relevant data about a phenomenon and also develop a new sense of direction to improve the outcomes of the study. Research philosophy establishes ways in which the information about the phenomenon of the study will be gathered and analysed in a systematic way to use it appropriately throughout the study [3]. There are many different research philosophy methods,

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however, in this study, the *interpretivism* research method has been followed. This method refers to disclosing, discovering and experiencing as it helps to collect authentic data in a descriptive manner and in this study this method helps to understand the social structure of the world while collecting information about the phenomenon of the study.

Research design

Research design helps to develop a systematic strategy in which the gathered data will be integrated into the different components of the study in a coherent and logical way to conduct proper data for the study. Research design helps to address the research problem by collecting different comparable data and information for data analysis to ensure the effectiveness of the study [4]. There are 4 types of research designs among which the *exploratory* research design helps to establish a better understanding of the research problem by exploring the different aspects and perspectives of the problem. The exploratory design has been followed in this research study that has ensured the depth of the research problem by exploring different aspects of the problem throughout the study.

Research approach

The research approach of a study suggests the different plans, strategies and procedures for the research which established the steps of data collection, analysis and interpretation from broad assumptions to detailed methods. The research approach implies the differences between qualitative and quantitative methods in particular by data collection and data analysis [5]. However, there are different types of research approaches but the *inductive* research method has been followed throughout the study which helps to benign the data collection process that is relevant to the phenomenon of the study in a systematic way which helps to improve the effectiveness of the outcomes of the study.

Inclusion and exclusion criteria

The *inclusion and exclusion criteria* is a major method of the research study and this criterion helps to filter the gathered data by including important information that is relevant to the study and excluding all the factors that are ineligible to be included in the study [6]. Through the inclusion method, this study has included the information that has been published after 2015 and also included data from authentic and reliable sources such as journals, newspaper articles, web sources and many others. Through the exclusion method, this study has excluded all the doctoral articles, conference papers, advertisements, and journal articles that are published before 2016 and also those articles that are not published in the English language to conduct effective research about the phenomenon of the study.

Data collection and data analysis

Data collection and data analysis is a process of gathering, measuring and analysing accurate data and information on the phenomenon of the study from a variety of relevant sources to find out the solutions to the research problem of the study [7]. The *secondary qualitative* data collection method has been adopted in this study which has gathered the existing data from different sources to find out the solution and make it better than before. Besides that, the *thematic data analysis* method has been followed in this study which involves reading through a data set to identify and analyse the repeated patterns in a descriptive way to improve the effectiveness of the research study.

RESULTS

Theme 1: Benefits of online education for the students

The world has evolved with new changes in the educational system in this digital era by implementing different advanced technologies in the educational sectors that are impacting the learning process of the students. There are many advantages of the online learning process as it helps to improve the academic performance levels of the students and also provides different strategies to improve the teaching skills of the teachers which improve the educational structures of the whole world. Among many benefits of an online learning process virtual classrooms are impacting the students greatly and advancing the students and the educational cultures as well [8]. Virtual classrooms are different from traditional classrooms and provide more flexibility to the students as they can attend the virtual class in their comfort place. Besides this, the virtual classrooms and online learning process reduce schooling costs that help to improve online educational structures.

The online learning process helps to save more time which the students can not save in the traditional learning process. Students are able to save more time in the online process and they are able to utilise those time in other skills or passions such as singing, dancing, reading and many others to improve their skills in these sectors. Another reason behind the increasing number of student engagement in online educational structures is it provides various courses online and the variety of courses is increasing every day [9]. The online process allows students to achieve different degrees at the same time which the traditional educational structure failed to provide to the students. Apart from these facilities, the online learning process provides more advanced career opportunities to the students to skill up their educational career in different directions as per their preferences.

Apart from that, the virtual education system increases collaboration learning and it also helps to understand the depth of collaborative learning by the students. Besides that, the online process provides a more efficient and personalised educational environment to the students as they can learn from their comfortable places which helps to provide much safety and security to the students. The virtual educational system enhances the time management skills of the students by majorly saving it and also provides instant feedback that helps to track their educational growth to improve their academic career [10]. Besides that, the students are able to

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access their course materials repeatedly whenever and wherever they want to access which is a major beneficial facility provided to the students in the virtual educational process.

Theme 2: Problems faced by students in online education

The educational sector was negatively impacted during the pandemic crisis of the whole world however, online learning courses increased during this time which has beneficially impacted the educational structures of the education system. Online learning courses are developed with advanced online technologies and through the digitalisation process which comes with different crises which negatively impact the online education sectors. There are many disadvantages of online courses such as developing a lack of motivation for the students regarding their physical activities, negative impacts on the infrastructures of the education system, reduces number of personal interactions which sometimes impact the psychological growth of the students and many others [11]. Despite the beneficial facilities of the online education system, there are shrill many negative objectives of online education that impact the student's educational growth negatively. However, the educational sectors have faced revolutionary changes because the online education system and virtual classrooms have more effect on the students in comparison to the traditional classroom and traditional learning process.

Though online classrooms do not require big classrooms, chairs, tables and many other objectives that do not mean it has no infrastructure at all. In this process, they need adequate computer systems, more accessibility to the internet, more adequate software and constant electricity to provide an effective virtual classrooms for the students in their online learning process. However, many countries have not been able to adapt all the necessary objectives to improve virtual classrooms in the educational sector which negatively impacts the educational growth of the students [12]. Apart from this, many countries are not able to provide a much effective and efficient digital development which increases the technical issues in the infrastructure of online education which fails to give proper education to the students. Apart from this, the increasing development of virtual classrooms in the educational sector decreases the number of person-to-person interactions with their students which negatively impacts their psychological growth.

Besides that, it demotivates the student in their physical activities which impacts their physical health and which also leads to abundant distractions for the students. These factors destroy the disciplinary lifestyle of the students and lack advanced online tools that decrease their interest in any kind of physical activity in comparison to other previous decades. The shift in the online learning process and another advancement in teaching tools change the course structures rapidly which sometimes decreases the quality of the4 learning process [13]. Besides that, the online education system has fewer opportunities for speciality-abled children

which negatively impacts the online educational structure. Hence, despite the advantages of online classes, there are many effective disadvantages of the online learning process which impact the slide of the students negatively.

Theme 3: Issues in infrastructure as an emerging problem in online education

The online learning process comes with high cost-effectiveness which can not be adopted by every country to make an efficient infrastructure of the online education system. During the pandemic, the educational system of the whole world has suffered from a lot of problems and through the help of digitalisation the online learning process was implemented throughout the world to improve the educational growth of students. However, there are some infrastructure challenges and problems that affect the education system negatively. There are many schools and colleges unable to provide laptops and computers to the students and teachers whereas these are mandatory in online classes [14]. Apart from that, the stability of electricity is mandatory while establishing Virtual online classes for the students and many schools, colleges sometimes fail to provide all-time electricity in their institutions which impacts the online education system.

Besides that, proper internet connection is mandatory in the online learning process and the unavailability of internet access impacts the infrastructure of the online educational system of many countries around the whole world. Besides these problems, the High cost of internet access and data creates multiple disruptions in the infrastructure of the education system. The lack of technical orientation among the students and teachers disrupts the infrastructure and impacts the online education system negatively [15]. Apart from that, many other technical glitches in online educational platforms create issues for the students in their educational career which impacts the infrastructure negatively. All these disruptions affect the infrastructure which decreases the effectiveness of the educational system. Lack of infrastructure often results in poor enrollment or sometimes decreases student engagement levels in online educational platforms.

Apart from this, the rural areas of many countries are unable to prioritise the education system which leads to a lack of knowledge of children around the world. In previous decades because of a lack of advanced technologies, the countries were unable to improve the educational structures but now in this digital era, they are more actively changing the education system which incredibly increases the participation of students in different degrees through online educational platforms. The issues of educational platforms affect the student's academic career negatively and the lack of infrastructure also impacts the educational sectors as it fails to provide effective online classes for the students [16]. However, despite the infrastructural issues, the online educational process has helped to improve the student's educational growth in comparison with traditional

educational systems. Research has projected that 52% of US graduate students have a better learning experience through the online learning process than their regular-based classroom education [17].
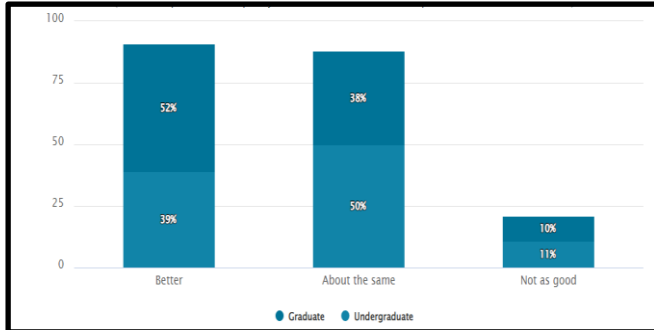

Figure 1: learning experiences of college students: online vs classroom [17]

Theme 4: Strategies to recover the issues of online education

Online education has come a long way and has improved the experiences of students and impacted their educational growth through the online learning process. The online learning process has become an essential part of everyone's life since the emergence of the pandemic situation all around the world. However, despite the effective advantages of online education, there are still some disadvantages that impact the educational structure negatively. Online education is certainly different from the traditional education system and might take some time for the students to adjust to this system [18]. There are some effective strategies that help to improve the effectiveness of the online learning process such as engaging with skilled instructors, decreasing the technical glitches, establishing specific learning spaces for different educational fields and many others that will effectively help to recover the issues associated with the online education system.

Engaging with skilled instructors, classmates and course materials help to establish a better understanding of the issues of educational structure and helps to improve the online educational structure. In the online learning process, students are not physically connected with their instructors and classmates so it is very important to provide skilled instructors which will effectively increase student engagement in the online process and will build a strong and positive relationship between the teacher and students. Apart from that, there are many technical glitches appearing in the online learning process and different strategies have been developed with advanced technologies to reduce the technical glitches which will positively increase the effectiveness of the online education system to the students of the world [19]. Besides that, online educational platforms provide a more personalised educational environment to the students and there are different strategies to improve the effectiveness of specific learning spaces for students in different educational sectors.

Thus it will help to improve the knowledge of the students in different educational fields which will also increase their development in educational growth. Apart from this, there are different strategies to break tasks into smaller chunks to improve the students' engagement in the educational sectors. It will effectively increase the knowledge of the students about different objects in their academic career which incredibly increases their academic performances. Besides that, different strategies have been made for educators to set aside time for the coursework of the students. However, splitting the time helps to establish a better routine for the students and also helps them to improve their academic performance. Thus, providing different strategies helps to improve the educational structure of the online learning process and also helps to recover the issues that are associated with online education. In 2016, the revenue of the self-paced e-learning market of America generated 23.34 billion U.S. dollars and in 2021, it has decreased by 16.97 billion U.S. dollars [20].
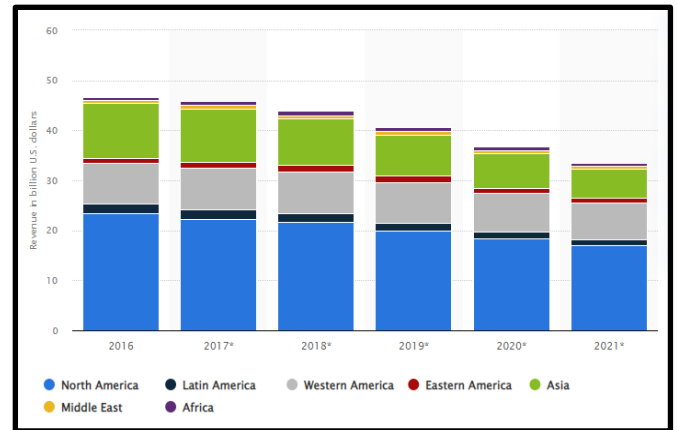

Figure 2: The worldwide revenue of the self-paced e-learning market by region (2016-2021) [20]

DISCUSSION

In this digital era, the whole world has evolved with an online education system which is developed through advanced technologies and different online platforms. During the pandemic situation, the education system was badly affected because of the lockdown situation all around the world. Thus the emergence of online platforms with an effective digitalisation process has improved the education sector. Although the online educational system has created different new structures in the education system which has impacted the academic career of the students both the ways positively and negatively [21]. Online educational development has many other effective factors that have helped in improving the traditional educational structures which have been there in the educational system for ages.

There are many advantages of the online learning process such as it improves the quality of learning, establishes a better relationship between the teacher and the students, saves more time, provides more personalised educational space to the students and many others. Despite the effective advantages of

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the online learning process, there are many disadvantages that negatively impact the academic career of the students such as it makes the students physically less active, students become addicted to the internet, extreme accessibility to the internet sometimes leads the students in the wrong direction, they become less interactive in person and many others that impact the educational structures [22]. Apart from these factors, the underdeveloped rural areas of many countries have not yet prioritised the educational sectors and thus the online learning process is not able to impact every child of an individual country.

However, there are different issues in the infrastructure of the online educational structure that creates disruptions in the development of online educational systems. Although many strategies have been established to reduce the issues and recover those issues to improve the online educational structure worldwide. These different strategies have been developed for solving different infrastructural issues of the online learning process such as engaging skilled instructors in the online sector who can tackle the students in online mode, strategies to increase student engagement in the online learning process, strategies to construct better electricity and better access to the internet to improve the learning process and many others that positively help to improve the online educational structure [23]. Hence, it is very evident that despite the negative factors and issues of online learning still, the online learning process provides better education to students.

CONCLUSION

In this study, all the necessary aspects of the online learning process and the problems that are faced by students because of the online educational process have been discussed thoroughly throughout the study. The online learning process has become an essential part of the educational sector and it also helps to improve the academic career of students through the implementation of different advanced technologies in the educational systems. This advanced technology helps to improve the educational structures and through the online educational system, it helps to encourage students in different educational fields at the same time to improve their knowledge. Despite the advantages of online learning, there are different types of disadvantages that impact the academic career of students in a negative way. The infrastructures which are less effective and are not established in a good manner affect the educational system and thus the students get impacted by it. Thus in this study, different strategies have been mentioned to improve the online education infrastructure to reduce the problems of students face in the online learning process and recovering these issues will help them to improve their academic career in the online educational system.

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