Opportunities Provided by Technology-Mediated Learning in Creating an Environment in which the Learner's Interactions with Learning Materials, Peers

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Abstract - This paper will represent many types of viewpoints and opinions about the opportunities of technology-mediated learning methods. This paper also highlights learning methods through materials and peers such as outcomes, current situations, needful techniques and many more other steps. On the other hand, the issues and its prevention plans will also be mentioned under this paper through a logical manner. However, the current situation of these learning subjects also needs to be noticed as this paper highlights the current process of this study’s learning methods in a proper manner.

Keywords— Technology-mediated learning, learning interactions, attractive environmental conduction needs

Introduction

There is a lot of effort put into creating technology-mediated learning environments, but it does not always work to improve environments. Moreover, technological potential and benefits are underutilized. When it comes to designing technology-mediated learning environments, this article investigates how modern pedagogical concepts may inform and drive the design process. According to the article, it is important to create learning environments that are built around meaningful and relevant activities and assignments that are actively supported by the instructor. A framework for designing online learning environments that encourage knowledge creation is presented and described in this study. On the other hand, it includes three important strategies such as the selection of learning tasks, the selection of learning supports, and the selection of learning supports.

Rationale

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<th>Positive impacts</th>
<th>Negative impacts</th>
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<td>● Learning outcomes of environmental care includes many different kinds of effective steps such as civil care plans, peers and other types of learning materials.</td>
<td>● As per the words of Janson et al. (2020), it is now widely accepted that a strategic environmental assessment (SEA) is the most effective way to integrate sustainable practices in policy and programmer creation. It is used at one or more of these levels in many nations across the world.</td>
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<td>● As the global internet usage rate is enhanced day by day, technology-mediated learning will achieve many different types of facilities such as attendance, civil care policies and many other things.</td>
<td>● However, its growth and execution are dependent on elements such as decision-making culture, politics, and circumstance.</td>
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<td>● As per the words of Miller et al. (2018), the digital revolution has had a profound impact on daily life, as proved by the pervasiveness of</td>
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smartphones and the streamlined integration of technology into common tasks such as shopping, reading, and navigating. The use of computer systems, portable devices, and the Internet is at an all-time high.

Table 1: Positive and negative impacts of technology-mediated learning
(Source: Janson et al., 2020)

According to the current global situations of environmental strategies, when Chile adopted a more strategic approach to environmental impact assessment (EIA) in 2010, it was to include sustainability objectives into the creation of policies and programmers (SEA). When it came to this new procedure, the Ministry produced a series of recommendations outlining the emphasis and technique for an effective application, which can be seen on their website. These principles have been extensively used as a reference for preparing environmental reports by a variety of stakeholders.

The graph defines with huge results to global technology from 2014 to 2019. On the other hand, the global technology spending is expected to reach $3,212 billion USD in 2018. Moreover, Telecom services, technology outsourcing and hardware elements, tech support and systems engineering services, software, communication devices, and computer equipment are all part of the global technology market. According to the learning and skill and advancement becoming more dire need among experts, several technology-enabled learning steps and tools have engaged in a logical manner. On the other hand, Massive open online courses, or MOOCs, provide many different types of benefits and facilities such as flexible, comfortable.

Concept of Technology-Mediated Learning

As the name suggests, technology-mediated educational environments are those where computer-based runtime environments, mobile computing devices such as smartphones or tablets, web-based platforms, online or length learning programmers. On the other hand, many studies on out of school learning have shown that there are a wide variety of situations and resources that help us improve understanding and become active participants. As per the words of Kumar et al. (2017), study on technology-enhanced learning is frequently criticized for being under-theorized, such as the research on the use of internet technologies in formal learning environments.

According to technology learning, this study combines previously studied areas of research and theory to provide an integrated analysis and research. Premises are introduced first, followed by a discussion of major areas of research and theory pertaining to technology-mediated learning. To understand learning in situations where technology influences learning, these domains are compared and contrasted with one other. Implications for future technology-mediated learning research are explored, as well as their scope and circumstances. In order to understand learning in situations where technology influences learning, these domains are compared and contrasted with one other. However, implications for future technology-mediated
On the other hand, a hybrid teaching method is used in this research to tackle the question of how technology may transcend these constraints without breaking and modifying any existing social standards. As argued by Drewelow (2019), using a wide range of Internet-based technologies, students and teachers may interact, collaborate, and exchange materials in a technology-mediated learning environment. These tools enable anytime, anywhere opportunities for learning. As per the suggestions of Bailey et al. (2021), higher education institutions, particularly those in underdeveloped nations, should adopt a total digital learning environment. These tools enable anytime, anywhere opportunities for learning.

Moreover, the adoption of technology has been embraced by many countries, with girls having more access to technology than boys. For example, Machila et al. (2018), they found girls are more aware of technology than boys. As per the words of Watson et al. (2017), technology is important because it helps to make proper understandings about technology-mediated learning.

As per the words of Machila et al. (2018), there is a total of three types of research design presented such as exploratory, explanatory and conclusive. In order to select proper and suitable research design, researchers adopt exploratory research design as it supports the research rot to represent conclusive answers and many other problems’ rectifications.

On the other hand, adoption of a suitable data collection method is one of the most important factors that must be measured by the researcher. As per the words of Watson et al. (2017), there are a total of two types of data collection method presented in order to conduct proper and strong environmental care strategies.
such as qualitative and quantitative research design. In order to conduct this research study, the researcher adopts both qualitative and quantitative research design as it supports the researcher to represent many different tulips of opinions and drawbacks about the study topic through a logical manner.

Findings

The Current situation of Technology-Mediated Learning

Learning that is enhanced by technological means is referred to as technology-mediated learning (TML). Despite its broad definition, TML encompasses any technology that improves the learning experience. In recent years, learners and students have seen that TML is taking over education through the employment of different forms of instructional software, which is referred to as digital TML. As per the suggestions of Rutberg et al. (2018), educational institutions are being transformed beyond recognition via TML. Consequently, it's difficult to disregard this fact and examine why TML is crucial for educators. Educators no longer have to rely on the textbooks provided by their universities because of TML. It is possible for students to study in many various ways by utilizing video, audio and interactive learning. Teachers can come up with innovative methods to engage their pupils. Due to various technologies, the learning environment has evolved to be more hands-on and interactive.

As per the words of Janson et al. (2020), there are numerous reasons why technology-enhanced learning is crucial. It's essential not just because it's the quality of education that's required today, but also because it has the potential to enhance education. An in-depth look into TML’s value. Since children learn at their own rate, the typical classroom might make it challenging for them to study at their pace. As a result of technological advancements in education, students are able to learn at their own pace. Others who need more work can spend much more time going through the exercises until they understand, while those who don't require as much help can go on. As a bonus, it frees up the teacher to work with students who require more individual attention.

Analysis

Outcomes of Technology-Mediated Learning

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<th>Learning Materials of online technology-mediated</th>
<th>Learning peers of practical technology-mediated learning</th>
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<td>● Globally, colleges immediately halted face-to-face teaching in reaction to COVID-19's imminent expansion and turned to technology-mediated education.</td>
<td>● Higher education is crucial for gaining prosperity and developing human resources, and underdeveloped nations have understood this fact for a long time.</td>
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<td>● Students from a variety of fields began to rely on technology to study, communicate, and cooperate for several months.</td>
<td>● As per the suggestions of Miller et al. (2018), students in higher education to be successful, they need a flexible atmosphere where they may interact and work with their classmates on various assignments.</td>
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<td>● According to societal norms, various regulations apply to men and women. Throughout the outcomes of online sessions, it can be stated that women in a culture are subject to a distinct set of regulations than their male counterparts in the same community.</td>
<td>● Higher education is widespread in western nations, and anybody, regardless of their gender or sexual orientation can meet, speak, or cooperate at anytime and anywhere they want.</td>
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Table 2: Learning materials and peers of technology-mediated learning

(Source: Miller et al., 2018)

The current study examines whether or not students' learning results are equivalent while using technology to facilitate learning. Individual differences are examined, with an emphasis on gender and learning style as influencing factors. As per the words of Janson et al. (2020), by using methodologically rigorous designs, numerous learning outcome measures and previously validated measurement scales, researchers carry out two experimental steps. As a comparison to classroom-based face-to-face instruction, learners look at the efficacy of learning, reported ease of understanding, and satisfaction with learning in technology-mediated learning in particular.
Conclusion

In order to represent the conclusion it simply can be stated that the exact methods of technology-mediated learning is one of the most difficult things. According to the global educational report, it also can be stated that, after the COVID-19 pandemic, most of the learning elements and subjects have been planned to teach through online classes. In this case, the practical methods and learning of technology-mediated cannot be conducted through online classes.

Reference