

VIRTUAL LEARNING

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ABSTRACT

Virtual learning (VR) is a powerful and interactive technology that changes our life unlike any other. Virtual learning refers to an environment where students study a digital-based curriculum taught by instructors that lecture online video or audio formats. This instruction can take place either in a self-paced environment or in a real-time environment.

WHAT IS VIRTUAL LEARNING?

Virtual learning refers to the process of education and learning that takes place through digital platforms, typically utilizing the internet and various digital tools. It allows students to access educational materials, interact with instructors and peers, participate in discussions, and complete assignments from anywhere with an internet connection. Virtual learning often involves a combination of live or pre-recorded lectures, online discussions, multimedia resources, and digital assessments.

BENEFITS OF VIRTUAL LEARNING:

1. **Flexibility:** students can access materials and also participate in the classes at their own pace and convenience and learning styles.
2. **Accessibility:** virtual learning opens a platform for education to individuals who have difficulties in attending regular classes, for those with disabilities or students from remote areas.
3. **Geographical barriers:** virtual learning helps institutions to reach a number of audience globally, breaking down of all the possible geographical boundaries and improving learning community.
4. **Collaboration and interaction:** The platform of virtual learning facilitate collaboration and interaction among the students and instructors through discussion forums, smart classrooms, and group discussion and projects.
5. **Environmental sustainability:** virtual learning can reduce need for physical; infrastructure and communicating and also contribute for sustainable development through reduce various pollutions and pollutants.

OBJECTIVES OF VIRTUAL LEARNING:

1. **Collaboration:** The easy format of interacting among the learners and instructors through virtual platform. Collaboration refers to group projects were the students collaborate on assignments or projects by working together to complete a research on a topic chosen through the process of analysis and effective publication of data in a systematic order.

Students are also provided an atmosphere to discuss through real-time video conferences, chat, or communication tools were the individual's relationships not only for personal development but also socially and culturally gets improved. Virtual learning does not only focus on one individual idea about a concept but focus on developing the knowledge of each student providing various mode of operation with distinctive definitions about a single concept.

2. **Skill development:** It provides various opportunities to enhance a wide range of skills, including digital evaluation, analytical and critical thinking, problem solving, communication, and collaboration of skills.

Learners develop proficiency in using digital tools, software applications, and online applications which seem to reduce work stress and helps in storing of information through the digital developments in the manmade environment. It encourages learners to analyse information critically and also evaluate and identify differences in developing different thinking abilities. Through online discussions and presentations the verbal mode of communication is improved.

Managing ones time efficiently, highlighting and setting on priorities, and maintaining of self-discipline helps in developing the abilities of individual students which helps in setting up a goal in life.

3. **Assessment and feedback:** Implementing of effective assessment strategies to evaluate learner's development and progress and provide an effective and efficient feedback enables the learners to track their performance and helps in development.

- a. **Feedback:** In virtual learning timely feedback is important and most essential. It helps students in understanding their performances before the material is erased from their minds. Constructing and realising their strengths and weaknesses without feeling discouraged and letting them take proper steps in developing their ability to understand concept and also put forward in as right format.

- b. **Formative assessment:** Formative assessment is an ongoing format of assigning students through quizzes, polls, discussions, assignments, and group or peer discussions. This assessments provides immediate feedback and helps in immediate discussions in finding out tools for development.

- c. **Summative assessment:** Summative assessment helps in evaluating student learning at the end of a unit or a period of months. It also includes exams, final projects, essays, paper presentations submitted electronically.

These assessments measure student's ability in moving to higher class and their personal and mental stability. Summative assessment helps in setting goal and a period of preparation is set in order to meet up the goal.

4. **Continuity in learning:** The access to educational resources provides continuity in learning and support services, even in challenging of circumstances such as the pandemics and natural disasters.

The resources of virtual learning are available 24/7 letting the students and the educators to access it when required even after the school hours. Through the parent or guardian portal the information is directly transferred through social media describing about the performances of individual student. It enables the quality in the process of learning not just by the direct mode but also through various points of view and definitions on a single topic.

5. **Professional development:** In consideration to the educators and professional developers by providing training and availability of resources to effectively bring out best practices.

The educators learn how to make the provided information into effective and efficient format through the pedagogical modes. Through the online mode of operation the students and educators from various circumstances are connected and the knowledge is shared which improves their personal development in understanding and analysing and elaborating and putting git forward.

Not only in the personal front but also professionally the concept of virtual learning helps in the development of knowledge in the most required form of human made technology.

RESEARCH ON JUSTIFICATION OF VIRTUAL LEARNING IN MIDDLE, HIGH SCHOOLS AND FURTHER EDUCATION:

A virtual learning in educational technology is a web-based platform for all the digital aspects of courses of study, within the educational institutions.

1. It helps in increasing of academic performances in order to meet the standards of each and individual student.
2. It helps in addressing the various learning needs of each individual student with the help of digital curriculum.

3. It helps in bringing out easy format in order to meet up the needs of students.
4. Making the availability of instruction in a most flexible manner to the students with variation of time and location difficulties.
5. Provides safeguarding of information not only in the printed formats were the information would get replaced or miss out. In storing of important notes or information in the online mode that can be retrieved whenever required even after a period of time without any defaults.

CONCLUSION:

Virtual learning has emerged as a most valuable tool in education, offering flexibility, accessibility, and innovative learning opportunities. It provides an opportunity in digital equity and social interactions, in enhancing learning experiences and reach out diverse students. As technological development continues the integration of virtual learning along with traditional methods can enrich education for digital complexities of the digital age.

