# FUNCTION OF VIRTUAL EDUCATION IN CURRENT EDUCATIONAL SYSTEM

**Ajit Kumar 1**

(Research Scholar, Magadh University, Bodhgaya)

# Dr. Manish Kumar Singh 2

(Assistant professor, Department of Mathematics, J.J College, Gaya)

# Abstract

Virtual education is a developing and expanding system that offers fresh chances for developing and improving people's talents with a non-presentable component, enabling students from various places and backgrounds to get immediate access to high-quality education and knowledge. Many online platforms have recently joined these new systems to enable the creation of virtual environments. Professional institutions, like colleges and universities, are now offering their entire specialisation in a variety of online programmes. Self- motivation and virtual drop-out are two issues that are common among virtual learners, in addition to the lack of necessary technology and resources in various locations, especially in developing countries. Although online education has evolved and improved since its inception after the internet's commercialization, many issues still remain unsolved and challenge its effectiveness.

**Keywords:** Virtual education, issues, quality, online platforms.

# Introduction

Since we need to develop insights and ideas to solve problems on a daily basis and deal with environmental changes, education is one of the most crucial experiences we have as we mature. As we become older, we also discover the need to forge fresh connections and patterns that shed light on certain issues and situations.

The need for new educational approaches has grown significantly over the past few centuries, in part because of the quick development of internet resources and technical devices that have made it possible to collect and distribute information across numerous locations and areas. The improvement in educational standards has aided in raising regional GDP values [1]; along with advancing understanding, it has facilitated wiser action and better decision-making.

New virtual learning environments have been developed in recent decades as a result of the development and expansion of technological devices. [2]. These areas have facilitated

numerous interactions between students from various backgrounds and geographic locations. Additionally, the costs of developing and exploring virtual worlds have partially decreased in response to the demand and supply compared to what the market and society have demanded, making it possible to produce resources that are better in quality and more complete. [3].

However, there are still many issues and difficulties that online learning must overcome before it is accepted and widely used. Two of these are the general public's lack of access to the necessary devices and connections, [4] as well as their partial engagement with the classes and the online material [5].

# Online teaching and learning.

* 1. **Characteristics of online teaching**

The material and content of teaching tactics now need to go deeper than they did in the past due to the advent of a connected society. Like people, the educational system needs constant improvement and new methods of imparting knowledge. This evolution must be systematic and consistent in order to meet the modern requirements and skills essential to exist in the digital era [6]. One of the most recent developments that has emerged as a substitute for many students who want to learn at their own pace is virtual education.

The traditional classroom can be virtualized thanks to the integration of digital and virtual devices and concepts; this has the potential to compete with or supplement existing teaching methods and techniques [7], though some adjustments still need to be made to achieve the same level of quality.

One of the most apparent benefits of online instruction is the availability of a variety of tools and materials that may be used to create rewarding learning experiences [8], such tools can be:

* + - 3D virtual world and environment for learners
    - Online repositories
    - Blogs and posts
    - Discussion boards and virtual meetings
    - Videos and soft copy of documents
    - Online libraries and registers

# The development of virtual learning

When the internet first began to develop in the late 19th century, education was initially taught exclusively in traditional classrooms with an audience and present students [9]. Since that time, participation in educational activities has increased noticeably, especially in technological subjects [10]. This new development has enabled people to start taking courses and upgrading their skills to deal with new challenges and to learn new things.

The development of a collaborative learning environment, which allows students to construct their own learning through quality experience rather than restricting the material to lecture- only formats, is one of the biggest changes and evolutions that online learning has undergone. This has improved the overall quality and dimension of possible subjects and options for accessing online resources and classrooms.

Since the first appearance of this virtual environment, significant changes have been made in terms of evolution. The key elements now are interactivity, collaboration, interest-driven differentiation, material with adequate resources, correct implementations, and communication [11].

Online education has been expanding rapidly ever since the internet was made commercially viable, which has prompted a new virtualization of the environment and scenario simulation [12]. In addition, it has been possible to increase the transition of material to remote students, even from different regions or countries, breaking barriers regarding locations and available options. This has been affecting the necessity of increasing the material and content to be offered to the students and self-learners.

Some of the popular self-learning platforms have been developing and broadening their scope, educating thousands of students and producing cutting-edge professionals just like conventional and traditional schools. Some online platforms are:

* + - SWAYAM
    - Coursera
    - EdX
    - Byju’s
    - Alison
    - NPTEL
    - Khan academy

Others required a pre-paid subscription; some of the sites mentioned are free with the option of paid courses and certifications. A popular video website like YouTube has also fulfilled the wish of many students to have access to a variety of online free courses or instructional videos and tutorials, while institutions and schools are also providing professional courses through their platforms.

# The drawbacks and difficulties of online learning

There have been persistent worries about the learning process and the calibre of the information offered, both of which have been steadily improving even though some issues are still evident at the time. This has been happening at the same rate that online learning and virtual education have been integrating into society. The top problems that need to be resolved include [13]:

* + - Some pupils' disinterest and lack of enthusiasm
    - Insufficient technological expertise on the part of teachers or material providers
    - Relatively brief attention span and distractions
    - Internet access or equipment for virtual learning
    - Lack of rapid feedback and interactions with students and teachers
    - Internet speed and accessibility

Another issue is that some students may not have the necessary background knowledge before enrolling in online courses, especially if there are no explicit prerequisites or training programmes. In fact, this has been identified as one of the leading causes of drop-out from online platforms. [14].

While some of these issues have been resolved as a result of the teachers' and students' motivation, there are still some issues that must be resolved before online learning and virtual education can be fully realised. However, some issues are beyond the control of the students and teachers themselves, such as the availability of appropriate resources and materials, which is a latent issue in developing countries and nations. In addition, for some virtual learners who are located in far-off locations, the language barrier and a lack of appropriate vocabulary may be a barrier.

# Conclusion

The development of new technologies has increased access to and use of virtual environments and platforms. Among these advancements, one area that has benefited is the education system. Whereas face-to-face interaction predominated in education decades ago, it is now possible for

it to be virtualized and spread throughout the world in a matter of hours, forming students from beginners to experts through online classes and with online resources.

Along with college-driven courses and programmes that have produced a large number of committed students, a number of self-paced websites have been driving the online education system. However, the number of students dropping out of online courses has also been rising, primarily due to the fact that some families lack the necessary equipment, the internet requirements, and the

The trend of virtual educations shows us that in the future, we can expect advanced and more user-friendly environments where people can access knowledge remotely and easily. Despite the drawbacks and problems that online education and classroom virtualization present, it is still a significant opportunity for many learners who seek ways to increase and gain new skills to face current problems and situations.

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