

# Online teaching is the inevitable trend of the information revolution era

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## ABSTRACT

The technological revolution and the emergence of the internet have clearly revealed the shortcomings of traditional teaching and learning methods, requiring modern education to fundamentally and comprehensively innovate in terms of content and methods, the goal is to create a workforce with knowledge and skills to handle professional work, and at the same time, it is necessary to have the qualities and ability to improvise before any very quick and unexpected developments of the situation. Online training with the effective support of modern technology, especially the internet, will unlock all human thinking potentials, promote positivity, initiative, self-discipline, ability to explore and create of learners; stimulates passion, learning, self-control, self-responsibility, and self-determination. Therefore, online training has become an inevitable trend in the current era of integration and development.

**KEYWORDS:** online training, trends, benefits, information technology

### 1. INNOVATING TEACHING METHODS IS AN OBJECTIVE REQUIREMENT OF LIFE

The information technology revolution (Government Resolution 49/CP, 1993), also known as the industrial revolution 4.0 taking place in the early years of the 21st century, has affected all aspects of social life to varying degrees, and different directions. Higher education is one of the sectors most strongly influenced by this revolution. In that trend, universities need to be deeply aware of and prepare for the change in training methods in the digital age. Online training is considered the optimal choice in the current context.

The teaching and learning in the current system of universities in Vietnam has generally achieved certain results (QS World University Rankings). The renovation of program content and teaching methods has brought into play its effects. However, in addition to the achieved results, the teaching and learning work in the past time still has limitations, shortcomings and inadequacies that need to be overcome. The teaching method is still rigid (the form of projection - shooting is common), has not created real excitement and motivation for learners. Active teaching-learning methods that promote students' self-study and self-study; especially, the use of information technology in teaching and learning has not been strongly promoted and is not effective (Vo Thi Phien, 2017, p.18).

The modern technological revolution has clearly revealed the shortcomings of the traditional education method; Along with the obstacles due to the frequent impact of the external environment causing many difficulties for the university's activities, the conduct of higher education online is an inevitable trend. The Law on Education of Vietnam clearly states: "Promoting the students' positivity, self-discipline, initiative and creative thinking; foster self-study capacity, passion for learning and the will to rise" (Le Duc Ngoc, 2004, p.9).

#### The benefits of teaching and learning online

Online learning, also known as online learning, e-learning, online learning is a method of learning, interacting and exchanging learning materials and content through electronic tools based on the internet (Bui Thi Nga, 2020, p.76). Specifically, online training is understood as a training method based on modern information technology. The online teaching-learning process takes place in which teachers and learners replace face-to-face teaching with teaching methods that communicate via e-mail, online discussion, etc.

#### Compared with the traditional form of training, online training has many advantages, which are:

**Firstly**, reduce travel costs, save time and study space as well as physical infrastructure for the university environment.

Currently, online learning is considered the best cost-effective solution. High efficiency, low cost will definitely help students feel satisfied with their choice.

Besides, the Flexibility of the Internet and technology platform allows students to have flexibility in the online learning process. From registration to completion, students can completely define and set up their own timetable and study space. If traditional learning is forced to go to school, the online learning space is not fixed, students can study anywhere, wherever they feel most comfortable. With a good mood, the learning results will obviously be improved and enhanced.

**Second**, reduce urban environmental pollution. The concentration of a large number of universities and colleges in big cities has contributed to the deterioration of the already overloaded physical infrastructure of the city; The high-rise hostels for students grow up close, crowded together in an extremely narrow space that does not meet the standards of planning, there is always a potential risk of insecurity, safety, hygiene...; The excessive population growth, along with vehicles and traffic density, emissions, and domestic waste, make the city environment chaotic, sloppy, disrupt the urban environmental ecosystem, reduce quality of life... Therefore, online education becomes one of the most feasible methods to overcome the existing inadequacies of the city today.

**Third**, online teaching and learning makes the interaction between lecturers and students and between students easier and more convenient thanks to the unlimited connection of the internet. Online learning creates conditions and opportunities for learners to interact and interact with many people at the same time. Students can collaborate with friends in online study groups to discuss and work on assignments. Currently, interaction and cooperation on the Internet is popularly done through Forums, Blogs, Facebook... so learners can take advantage of the facilities to “work while learning while playing”. With such an unlimited connection of digital technology, it has created the most comfortable and effective learning space that is not available in traditional learning.

**Fourth**, convenient in storing learning materials. Books and school supplies are indispensable in the traditional learning environment, but with a huge amount of documents that need to be stored, causing learners a lot of trouble. It takes time, effort to find, takes a lot of space to store books... have a significant impact on the individual's life and activities. However, with today's digital technology, this problem is completely solved without spending much effort. All data, lectures can be stored on computers or smartphones very easily. Not only that, being able to store data in a methodical and scientific way also helps learners to search conveniently when there is a need. It helps a lot for each person's learning, making finding necessary information and documents extremely simple. With the above characteristics, it can be affirmed that online training is considered a smart form of training to meet the needs of high-quality human resources for the new labor market. The great support of technology, providing learners with learning programs “anytime, anywhere”, suitable for many different training subjects (high adaptability), personalized training content create. Online education is widely applied modern technology to all training activities, scientific research, management work, teaching methods, thereby promoting the entrepreneurial spirit of students; facilitate the cooperation between higher education and production... It enables teaching and learning activities to take place at all times, enabling learners to fully take the initiative in deciding the content and methods of learning, according to your own needs.

#### **Online training - a way to promote the positivity, initiative and creativity of learners**

Promoting the positivity, initiative and creativity of students in teaching and learning is an inevitable trend of modern education. In the Resolution of the 8th Central Committee of the 11th term on fundamental and comprehensive renovation of education and training, the Secretariat of the Central Committee of the Communist Party of Vietnam stated a very specific request: “Innovating the theoretical teaching method politics, applying modern methods, attracting learners, creating interest in exploration and research. Innovating the form and method of testing and evaluating the actual learning results in the substantive direction” (Directive No. 23-CT/TW1, 2018, p.4).

The advent of digital technology promises to bring education an effective training tool. Online training with the effective support of digital technology makes education in general, and political theory education in particular, comprehensive in both knowledge and skills so that graduates can immediate and long-term response to the needs of the labor market; make political theory education activities in universities always have timely innovation in terms of objectives, contents, programs, models and methods of education; make teaching - learning activities more and more active, focusing on building students' sense of self-study, lifelong learning and soft skills; to raise the level of science, technology and information technology skills of staff and lecturers

commensurate with the modern and synchronous system of technological equipment and facilities guaranteed in the teaching environment - smart learning. Moreover, the use of digital technology to apply online teaching and learning has contributed to promoting the digital transformation in Vietnam, contributing to the successful implementation of the project "Make Vietnam a strong country in technology information and communication technology" and successful international integration (The Dan, 2018).

In modern education, group discussion is one of the methods to promote the activeness and initiative of students. Group discussion is also a democratic way of learning, all individuals are free to express their views, create equal living habits, respect, listen, share and accept different views, personalization, self-discipline, self-responsibility training, etc. To implement this method, the lecturer must perform a series of operations such as: classifying the class into small groups, electing a leader, standardizing the class, discussion questions, comments, evaluation... Besides, the requirement for this class is that the number of students is only moderate (normally no more than 45 students). However, in general knowledge subjects, most of the traditional classes in universities today have very large class sizes, along with too cramped classroom space, physical conditions, etc. Classroom equipment is not guaranteed. With such conditions, it is very difficult to conduct group learning activities in the classroom, even bringing back the opposite effect. Online training method with digital creates an unlimited connection space and the interaction between students and lecturers and between students takes place smoothly, easily, and therefore, definitely will overcome the shortcomings of the above conditions in traditional classrooms today.

Online training – the way to ensure learner-centered. In the traditional way of teaching, teaching is a one-way communication of information from teacher to student. The teacher gives students as much knowledge as possible. The class time is conducted as an announcement session, so the learners are very passive, with very little feedback from the learners. The purpose of the teacher is to present the content according to the subject accurately and clearly. It is the learner's responsibility to absorb information according to his or her space, time and attitude. The assessment is mainly about how much information the learner understands, exactly to what extent... but does not assess what and how the learner understands (Le Duc Tho, 2004, p.39). Online learning with the effective support of internet technology helps learners to collect information, process information and store information in the form of knowledge, from school or living environment, making learners transform themselves. intellectually and enrich their knowledge, which also satisfies the natural needs of each learner. It allows learners to actively participate in the teaching-learning process. Here, the lecturer no longer plays the main role in transmitting knowledge but is the one who directs, directs, organizes and promotes the process of knowledge exploration and acquisition by students. All problems posed must be dissected, analyzed and debated so that learners can make their own decisions (of course, it is not a blind choice). Thus, at the same time as the process of acquiring knowledge, modern educational methods give learners the ability to improvise, be dynamic, and know how to turn the acquired knowledge into their own understanding to serve their activities. perceive, create, transform reality, and easily adapt to all developments of the situation.

## 2. SOME REQUIREMENTS OF ONLINE TEACHING AND LEARNING

It can be said that online training is currently one of the most effective educational methods due to its characteristics, which is the ability to maximize the positivity, initiative and creativity in learners. Online training requires students to be highly focused in learning, actively explore learning content, proactively solve problems in accordance with their ability to understand, propose ideas. creative. Lecturers: flexible, flexible, always creating opportunities for learners to participate and master teaching and learning activities. Teachers must know how to create an environment capable of promoting learners' self-control in learning activities, enabling each student to choose, plan, independently or cooperate to perform tasks. learning, and finally self-review and evaluate their learning results. The lecturer himself only plays the role of an organizer, guide, and controller of the learning process. Different from the traditional way of learning, the characteristics of online training set out the principles that the teaching and learning process must follow to achieve optimal results. Such as:

**For learners**, the first principle is to put self-discipline first. This principle comes from the very flexible and flexible nature of the online training method, where the contact environment between lecturers and students, between students takes place in virtual space, not in a virtual space. can control the teaching-learning process as closely as in traditional classrooms. This can cause learners to become distracted and lose focus if they do not know self-discipline and are not able to arrange study time. Therefore, in order to achieve good academic results, students must have a high degree of self-control and self-discipline, and must clearly define their learning goals, which is to learn to make a career and learn for themselves. Since then, they are determined to strive to focus on their lessons and find solutions to overcome difficulties and achieve the goals they have set.

**Second**, choose the right study space. A good study space will help learners' mental comfort, concentration, excitement, easy access to knowledge and information processing. Therefore, before starting the lesson, learners should find themselves an appropriate space, avoiding the noise, restraint, stuffiness, etc., which negatively affects the learning results.

**Third**, read documents, prepare lessons before learning online. Unlike traditional teaching and learning, online learning only focuses on the core knowledge and the teacher's teaching work is only for leading and revealing the main problem. In order to absorb the lesson well, students need to read preliminary and generalize the entire content of knowledge in the document before directly listening to the lecture. After each lecture, students need to exploit the system of materials, questions and follow the teacher's request. Increase interaction online, by phone with teachers and classmates to share learning difficulties.

For lecturers, it is necessary to be aware that the online training environment has changed, so it is not possible to apply the same way of teaching and imparting knowledge as in live classes in the lecture hall. When conducting teaching, first of all, each teacher needs to determine the goal, focus of knowledge or basic knowledge to convey to students. Due to time conditions and interactive factors, in a certain period of time, the lecturer cannot teach all the knowledge units in the lesson, but should focus on the core knowledge, omitting unnecessary content. must be taught in the lesson. Moreover, it is necessary to prepare detailed activities and supporting materials before and after the online lecture to help students grasp the topic before participating in the session and review the knowledge afterwards.

To achieve the highest efficiency in teaching and learning, besides focusing on key knowledge, teachers need to equip students with test-taking skills. The skill teaching part can be integrated into the teaching content of the practical part after each lecture or the correction of exercises, especially multiple-choice exercises so that students can consolidate the knowledge they have learned. Test-taking skills are an important content to determine the learning outcomes and knowledge acquisition of students. Lecturers need to guide students on how to exploit lectures, documents, questions, exercises sent via email, zalo... so that after each lecture, students have materials to perform their learning tasks.

In online training, the selection of software suitable to the characteristics and conditions of students is an important factor to achieve quality. Therefore, before teaching, teachers need to choose compatible software, along with a system of machines and equipment for teaching and learning.

For training institutions, universities need to prioritize investment in information technology facilities, digital library information systems, and appropriate technology software to serve the teaching process, test and evaluate political theory subjects by online training. Currently, the school's technology infrastructure is basically not good and not guaranteed, so the access network is often blocked or the transmission is poor, leading to low quality of lessons. Updating new technological achievements, ensuring the highest speed, form and diversity are indispensable requirements to implement the online training method. The system of technological equipment and software for teaching and managing these subjects must always ensure the synchronization, effectiveness and suitability with the conditions of learners. At the same time, it is necessary to ensure that the information technology staff supporting the teaching and learning process is sufficient in quantity and quality to ensure that all lessons run smoothly, regularly and without interruption.

### 3. CONCLUSION

From the practice of university teaching, along with the requirement of constantly innovating, improving teaching skills, making the most of the benefits and benefits of digital technology, education needs to be proactive. Seize the opportunity to go beyond the traditional rut. Online learning becomes an educational solution to improve the quality of human resource training for society, allowing learners to easily access quality learning options. Of course, the benefits of online training in countries with a developed education are undisputed, but in Vietnam, there are unique characteristics and online training in most Vietnamese universities is just the beginning and has not yet had an official review to see its real effectiveness. In the implementation process, depending on the specific situation, schools should apply flexibly.

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