

MANAGING THE APPLICATION OF INFORMATION TECHNOLOGY IN TEACHING METHOD INNOVATION AT THE VIETNAM-SOVIET VOCATIONAL COLLEGE NO.1 IN THE CONTEXT OF THE INDUSTRIAL REVOLUTION 4.0 - SITUATION AND MANAGEMENT MEASURES

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The author of the article has studied in detail the current situation of the management of information technology application in teaching method innovation at Vietnam-Soviet Vocational College No.1, analyzing strengths, weaknesses and causes. Since then, the author of the article has proposed 06 effective measures to manage the application of information technology in teaching method innovation at Vietnam-Soviet Vocational College No.1 in the context of the industry revolution 4.0 today. 06 management measures have been tested for the necessity and feasibility of management staff of Vietnam-Soviet Vocational College No.1, analyzed the results and evaluated 06 necessary management measures and high feasibility.

Keywords: Information technology application; Information technology application management; Innovating teaching methods; Vietnam-Soviet Vocational College No.1; Industrial Revolution 4.0.

1. Introduction

Recognizing the importance of applying information technology in order to contribute to the innovation of teaching methods is very important and necessary, over the past years, Vietnam-Soviet Vocational College No.1 has implemented many measures to promote the application of information technology in teaching and management. The application of information technology in teaching has initially achieved a number of results. However, the limitations are still unavoidable. There are many causes leading to this situation such as: some managers have insufficient awareness of the application of information technology in teaching; Many teachers have not mastered the basic computer knowledge and skills. In addition, the purchase of modern teaching techniques and techniques, building infrastructure for the application of information technology in innovation of teaching methods remains weak. In addition, the awareness of the industrial revolution 4.0 trend in schools is not correct and complete. For the above reasons, the author chose to study the topic: "Managing the application of information technology in teaching method innovation at the Vietnam-Soviet Vocational College No.1 in the context of the

industrial revolution 4.0".

2. Research method

2.1. Group of theoretical research method

- Study documents of the Ministry of Construction, the General Department of Vocational Training related to teaching technical means, application of information technology in teaching method innovation.

- Research on industrial revolution 4.0 is booming strongly in our country in the current period and it affects the application of IT in teaching.

2.2. Group of practical research methods

- Expert method: Collect opinions of experts in the field of IT management and application in teaching method innovation.

- Method of survey by questionnaire: Using referendums to find out perceptions and aspirations of educational administrators, teachers and students to collect information about the current management situation. IT application in teaching method innovation.

2.3. Data processing by statistical methods

Analyzing and processing data, information obtained by mathematical statistical methods

3. Overview of the research problem

3.1. Overseas

“The research on applying IT to the teaching process has been strongly deployed in many countries around the world. In developed countries such as America, Germany, Korea,...many companies have produced e-books, modern teaching facilities with IT applications controlled by computers, school systems are equipped. Multi-function classrooms with computer networks, projectors...marked a new revolution in teaching technology. Bringing the teaching process from traditional teaching forms to online teaching, turning the Internet with websites into a learning environment and a library of documents for students to access.

The United Nations Educational, Scientific and Cultural Organization - UNESCO forecasts: IT will comprehensively change education, systematically; and highly integrated, especially in the revolutionary context. Industry 4.0 as of today. The Ph.D. thesis of Mohammed I. Isleem (2003), Ohio University (USA) has mentioned the correlation of basic factors with the level of IT application in teaching activities of teachers.

“Teacher ICT skill”, a study by the Western Australian Department of Education surveyed and assessed the level of knowledge and skills of teachers in the field of IT application. The study showed that The main factor affecting the level of IT application in teaching is the capacity to use IT, the resources of the school, the attitude and motivation of the teachers, the policy and the attention of the educational managers.

“A study Naser Al-Zaidi, Leong Lai Mei and Fong Soon Fook (2010) surveyed more than 650 teachers in Jordan and confirmed a positive correlation between teacher attitudes towards IT application and IT application level in innovating their teaching methods”.

“Thus, it can be said that education in countries around the world pays special attention to IT application in innovation of teaching methods. Based on the above studies, the author has drawn many important contents and lessons: such as the role of the human factor in IT application, the assessment of the importance and positive impact of the application. IT in teaching...”

3.2. Vietnam

“Over the past years, the application of IT in management and teaching has been interested in research by many scientists. To improve the quality of teaching, there have been many conferences, seminars, scientific topics researching on IT management and application in education, such as many valuable research works: “Applying IT in the education industry towards an e-education” by Quach Tuan Ngoc (2009); “Information technology

for active teaching” by Jef Peeraer and Tran Nu Mai Thy (2011); “E-Learning and application in teaching” by Le Huy Hoang (2011); “Using IT in teaching”, documentary program Partners in learning of Microsoft (2008). These works all talk about the importance of applying IT in innovating teaching methods, at the same time offering solutions and technical instructions for IT application in innovation of teaching methods; “A number of management measures to improve the efficiency of the use of educational equipment, IT applications and communication in continuing education centers and community learning centers” (2006); “Research on organization and management of IT application and communication in the management of junior high schools” (2007) - The ministry-level topic by Ngo Quang Son refers to the history management methods, use educational equipment, manage the IT application in innovation of teaching methods at many different levels.

In addition to the above research projects, there are also many seminars, scientific articles, dissertations, research theses on IT application in innovation of teaching methods, such as:

The scientific seminar: “Researching and implementing E-Learning” jointly organized by the IT Institute of Hanoi National University and the IT Faculty of Hanoi Polytechnic University in early March 2005 set out a development direction. develop the learning environment of learners in a new period, in line with the development trend of IT.

National scientific seminar on ICTs: “Technology solutions and management in the application of ICTs into innovation teaching methodology” of Hanoi Pedagogical University in collaboration with the Group Higher Education Project On December 9 and 10, 2006, mentioned solutions to improve the quality of education by applying achievements of ICTs in the teaching process.

The author Nguyen Van Hoa (2010) has found the impact of seniority factors and training information on the ability to apply IT in teaching method innovation, and also proposed some solutions in order to improve teachers’ ability to apply IT in teaching.

Jef Peeraer and Tran Nu Mai Thy (2011) research “Applying IT in education in Vietnam: From policy to reality” have affirmed: IT is always important in educational innovation and is considered as a subject and an important tool to innovate teaching methods. Research has shown that policy makers are very interested in applying IT in education and “E-Learning” and proceeding to develop and use electronic lectures is the result that the application of IT in education wants to aim at. “The level of IT application in teaching by university lecturers”, a study by Dao Thai Lai and the authors showed

the frequency of using IT through channels such as PowerPoint presentations, exploiting information on the Internet into teaching, online exams, online teaching... Another study by Jef Peeraer and Peter Van Petegem (2010) examines the influencing factors; on the application of IT in the Vietnamese pedagogy. The study affirms that because Vietnam is a country in the early stages of applying IT in teaching, it is still limited in using IT application programs, mainly to replace the old teaching method. The impacting factors include: access to computers, intensity of computer use, ICT skills... Through the research overview, the author found that up to now, seminars and research topics on IT application have affirmed the role and meaning of applying IT in teaching, innovating the teaching methods and measures for managing IT application. So far, at the Colleges in general and the Viet Xo Vocational College No.1 in particular have applied many measures to manage teaching activities, but there is no research work on management. IT application in teaching method innovation. Therefore, it can be said that it is very necessary to research and propose management measures for IT application in teaching method innovation to improve the quality of training at the Viet - Xo Vocational College No.1.

4. Research content

4.1. Current situation of information technology application management in teaching method innovation

4.1.1. Strong face

“Most of the school’s management staff and teachers are aware of the importance of applying IT in teaching and innovating teaching methods. School facilities in general, and technical development in particular, necessary for IT application, have been initially invested”. The Internet connection is an important condition for promoting and improving the quality of IT application. In renovating teaching methods have been implemented in all rooms, faculties and centers in the school.

“The application of IT in management is shown through the exchange of electronic information on the network between the school and the units via email with good efficiency. The application of IT in teaching and learning has also achieved some positive results”.

4.1.2. Weak face

Although facilities in general and modern teaching techniques in particular for IT application in innovation of teaching methods have been invested and purchased, there are still many shortcomings in comparison with actual needs: “

- There has not been proper investment and decisive direction of management staff in IT application.

- Electronic library and high school classrooms do not have.

- The discovery and promotion of effectiveness in the use of mathematical physics is still very low, the number of teaching hours using modern economic engineering techniques is still small. Skills in using modern technical and teaching development have not been completed yet.

- Most staff members lack basic computer knowledge and skills. The method of exploiting electronic information and documents on the Internet is not yet known to apply and integrate into the IT institutions with IT applications. The design of active teaching lesson plan with IT application is fragmented, spontaneous without the active management of superiors.

- Some managers and teachers are aware of the importance and effectiveness of applying IT in teaching, but there are still many shortcomings in the implementation process.

- There is no consensus or consensus of managers and teachers in the design and use of active teaching lesson plan with IT applications.

4.1.3. Cause

“The facilities in general and teaching technical facilities in particular play a very important role in innovating teaching methods and improving the quality of vocational training of Vietnam-Soviet Vocational College No.1”. Applying IT in teaching method innovation, the modern technical engineering skills play a key role. While the school does not have high school classrooms, there are not enough computer labs. Besides, school facilities still faces many difficulties and shortages. Especially in the time to curb inflation like now, construction investment is facing more and more difficulties. Although the school has procured the modern technical skills, there is a lack of it to apply IT in the process of organizing teaching activities and of course it is impossible to innovate the teaching method in the direction of technology. Furthermore, teachers’ life is still low, many teachers have not equipped computers to actively use in lesson plan design. “In fact, to get an hour of training with IT application, teachers must prepare a lot of time, effort and hardship right from the beginning of lesson planning. Each teacher usually has to prepare from 3 to 6 lesson plans /1 week, especially the number of teachers who teach elementary vocational and short-term training, the lesson plans are heavier. Because in addition to composing the curriculum, the teacher also has to do a lot of books in the teacher file.

According to the current regulations, each teacher has to teach 610 hours/ school year, but in fact teachers of all faculties in the school often have to teach more than the regulations, due to the

lack of local teachers such as Faculty of Electrical Engineering, Faculty of Mechanical Engineering. A large number of teachers have to teach overtime and have to teach linkage in all provinces in the North. At the beginning of the school year, although the school's training office planned to teach departments, faculties and centers, in the middle of the school year there were a number of teachers who went to school to improve their professional qualifications, change jobs or take leave. Therefore, some faculties lack teachers. The above objective reasons have a great influence on the application of IT in innovation of teaching methods of faculties and units throughout the school. From the perspective of management, the management staff of departments, faculties and centers in the school have not paid close attention to the application of IT in innovation of teaching method, have not had a specific management plan for this issue, only considered applying IT in innovating teaching methods as a movement. Management managers are not really proactive and creative before new requirements.

The survey results show that for teachers of departments, faculties and centers in the school, it is still very embarrassing to apply IT in innovating teaching methods. Part of this is due to the limited information technology level of the faculty, some of them have a very young age (over 67% of the total number of teachers of the units, faculties and subjects in the school are from 25 years old to 30 years old) so there is no teaching experience, some do not make efforts, enthusiasm and determination to meet the requirements of comprehensive quality improvement; Besides, the coordination between the school and other organizations in educating students is not yet effective.

4.2. Management measures of information technology application in teaching method innovation at Vietnam - Soviet College No.1 in the context of the Industrial Revolution 4.0

4.2.1 Measure 1: Raising awareness for teachers about the importance of applying information technology in innovation of teaching methods

It is necessary to create consensus and consensus right in the leaders of the branches and schools: Party Committee, Rector Board, Trade Union, Specialization Department and on that basis, forming the collective determination of the faculty of teachers in the subject. Since then, there has been a change in awareness for managers and teachers to properly and deeply understand the role and nature of IT application active teaching lesson plan. Managers and teachers need to raise awareness about the importance and effectiveness of designing and using IT in innovation of teaching methods. The application of IT contributes to the standardization of facilities, building a contingent

of teachers, building an educational environment that adapts to the requirements set out in a new society. Application of IT helps school leaders in leadership, direction, management and collection information, information processing and decision-making quickly and accurately. In current conditions, applying IT in new teaching method at Vietnam-Soviet Vocational College No.1 is an unavoidable problem, difficulties and challenges. School managers need to find out and properly understand the guidelines and policies of the Party and State, of the Ministry of Education and Training, the Ministry of Construction, the General Department of Vocational Training in IT in the field of education and vocational training. The school leaders must be the first, in the forefront in the application of IT facilities, create the movement and be a light for the staff and teachers in the school to follow.

4.2.2. Measure 2: Increase investment in purchasing modern teaching technical facilities, building multimedia classrooms to effectively apply information technology in innovation of teaching methods

High school classrooms have been built for departments, faculties and centers. Improve the efficiency of the use of mathematical instruments in training. Develop a modern system of technical development in university classrooms and well serve the needs of writing lectures with active teaching lesson plan with IT application for teachers of faculties, units and subjects in Vietnam-Soviet Vocational College No.1.

Before building the multi media classrooms and investing in modern technical development, the management staff must review the whole thing; the number of current technical development strategies, check whether it is still usable or not. According to the specific needs in terms of quantity and type, the modern economic technicals are necessary for the construction of high school classrooms of each department, faculty and center in the school before making lists to buy. Make sure to buy the right amount, buy the right quantity and types to avoid unnecessary waste. At the same time, the management staff must prepare a budget plan when purchasing these equipment.

In order to accomplish the goal of increasing investment in the procurement of modern economic development, building classrooms in high schools, the school management staff should do the following jobs well: Develop an effective plan to use the house budget, water supply, program target capital and training welfare resources of the unit to invest, upgrade the primary infrastructure in general and modern economic development in particular; Mobilize the community to invest in

school facilities, modern economic development, construction of high school classrooms; Improve the management and maintenance of modern economic development; Establish a specialized department to manage modern economic development; Develop regulations on the responsibilities, powers and obligations of each department, faculty, center and each individual; in the school on the construction, procurement, use and preservation of primary infrastructure in general and modern technical development in general; Organize training for educational managers and teachers on skills to use and preserve modern economic development ; Construction and use of high school classrooms...

4.2.3.Measure 3: Organize training and retraining for teachers of departments, faculties and centers on knowledge, basic computer skills and improve skills in using some teaching software. In order to have a team of vocational teachers of departments, faculties and centers that know how to use computers and a number of modern technical disciplines, at the same time also have some basic skills in exploring and searching for the above documents. Teachers are able to use the basic functions of some teaching software such as: Total Video Converter 3.12; Study English 1.0; Crocodile Physics 605 in the design of electronic materials integrated into active teaching lesson plan.

Teachers who have good professional knowledge but do not have basic computer skills will face many difficulties when preparing lectures with active teaching lesson plan with IT application. Applying IT in innovating teaching methods is not the method but the support for renewing teaching methods with IT tools and devices. School administrators need to consider basic informatics training, improve the ability to use some teaching software for teachers; is one of the most important tasks when conducting technology-oriented teaching.

In order for the organization to foster the above informatics skills for managers and teachers to be fast and effective, the school managers need to base themselves on the actual situation such as the existing computer skills of each teacher, the technical development studies. Existing, the workload that each teacher is undertaking...to arrange the most reasonable learning sessions for all managers and teachers in the school, so that all managers and teachers have the conditions to participate.

4.2.4.Measure 4: Develop the process of designing active teaching lesson plans with the application of information technology

Developed a standard process to be used by teachers of specialized faculties and organized when designing active teaching lesson plan with IT application of Vietnam-Soviet Vocational

College No.1.

When you have fostered and improved basic informatics skills and the level of using teaching software for teachers, the next job will guide and support teachers to apply the knowledge they have learned into the design of the IT curriculum has IT application and these lesson plans can be used to organize teaching activities in high-school classrooms to bring about high efficiency, meet the application of IT in innovation of teaching methods.

Through actual investigation in faculties, units and disciplines, it shows that all units have not had a process to guide teachers in designing active teaching lesson plan with IT application. So the author boldly proposed active teaching lesson plan design process with IT application as follows:

On the basis that the teacher has mastered the design of active teaching lesson plan, the management staff can guide the teacher to design the active teaching lesson plan with IT application according to the following process:

* Step 1: Prepare;

- Research carefully the content of the lesson to grasp the core knowledge content of the lesson.
- Prepare lesson plans for lessons according to the structure of active teaching lesson plan.

* Step 2: Selecting the contents that need to apply IT in lessons

In the lesson, there is a content of knowledge that is too abstract, that traditional teaching equipment cannot show, but must use IT to show it, for example: In teaching the subject of specialized motivation industry; Automotive technology when describing the work of engines, or specialized in driving machines, driving cars...that pictures, traditional teaching equipment can not be described need to be simulated by software.

* Step 3: Select the software, show on the animated board the visual and sound effects, design the experiments, simulations..., create interaction between students and computers with Macromedia Flash Software.

* Step 4: Checking and completing; designing electronic documents

- Test the designed electronic documents on the computer to correct technical errors and design irrationalities.

- Finally, after completing the content, electronic documents to integrate into active teaching lesson plan need to have a backup plan (on computer, USB...).

4.2.5 Measure 5: Develop the process of using active teaching lesson plans with the application of information technology

There is a standard process that applies to

college teachers to teach in all occupations, subjects when using active teaching lesson plan with IT application in lectures. On that basis, instructing teachers to follow the correct process to improve the quality of active teaching with IT application.

* Step 1: Prepare for teaching hours; with active teaching lesson plan with IT applications

In order to be able to teach using IT, teachers need to prepare the following equipment: Computers; Multi-purpose projector, screen; speaker system, radio... Check that those devices are still working. Teachers must quickly, together with the support of others, quickly install the computer system, multi-purpose projector, loudspeaker...into the classroom to be ready to teach in this classroom.

In addition, in the preparation phase, the teacher must also anticipate an unexpected situation that is when the teaching time is underway, there is a sudden power outage. If the worst case poses that the power failure cannot be overcome, the teacher must be really calm, depending on the chance that the teaching hours are still normal.

* Step 2: Carry out teaching activities by using learning technology; with IT application

- Teacher plays a key role in organizing learning activities for students, not relying too much on technology. The filter is only shown on the animated board; Video clips, virtual experiments, simulation experiments (students can interact with the computer if they are in the computer room). Teachers need to combine using additional worksheets and supplementary tables to analyze and clarify knowledge content that teachers have not done on the computer, and at the same time organize all learning activities for students.

- In each student's learning activity, teachers need to know how to use IT at the right time, at the right place, at the right level and should not focus too much on technological factors; but the important thing is to combine skillfully with their ability. in order to promote the initiative, positivity and creativity of students.

* Step 3: Learn after-hours teaching with active teaching lesson plan with IT applications

After each hour of teaching with active teaching lesson plan with IT application, teachers have to evaluate and draw experience by themselves, they will accumulate a lot of experience in designing and using this type of project.

It is necessary to learn from experience right after teaching hours of teachers end, especially teaching hours with managers and teachers attending. When conducting the experience-learning meeting, it is imperative to be present of the teachers who have directly taught that class, along with the teachers who have attended the

teaching hour to draw from experience.

4.2.6. *Measure 6:* Strengthen checking and evaluating results of applying information technology in innovation of teaching methods of teachers

Checking and evaluating the results of IT application; in renewing teaching methods of teachers correctly to serve as the basis! Make appropriate rewarding and disciplining decisions, thereby enhancing teachers' sense of self-awareness. in applying IT; in innovating teaching methods.

Check and evaluate correctly the results of applying IT in teaching teaching innovation of teachers, will contribute to the success in management; of the school administrators on this issue. To well perform this task, the management manager should follow the following process:

* Step 1: Define the standard

Management staff must define or build; standards that each teacher needs to achieve when applying IT in innovation teaching methods. This standard is based on the reality of the school on the level of students, curriculum, modern technical development.

* Step 2: Measuring achievement

The number of teachers in faculties and centers is diverse in different professions. But each faculty has only 2 or 3 management staff, moreover, it also participates in teaching, so it is not possible to check the standard level of each teacher in applying IT in teaching. Therefore, the management staff must organize an inspection force to ensure the timely, accurate and objective information collection requirements. Forces involved in the inspection process may include: Management staff; subject group leader, school training inspector, some reputable good teachers.

* Step 3: Evaluate the test results

To do this step well, it requires management staff to have high skills, techniques, acumen to correctly determine the results of IT application in innovation teaching methods of each teacher. Management managers consider the match between the measurement results in step 2 compared with the standards developed in step 1. From that result, the management staff must give specific comments for each teacher considering they apply IT in such teaching method innovation is appropriate, inappropriate or inappropriate?

* Step 4: Make adjustment decisions

- Bending; repairing: If any teacher's application of IT in teaching teaching innovation deviates from the prescribed standards, management staff within their competence need to influence the behavior and attitudes of these teachers for their efforts. more force or re-adjust yourself to meet a set requirement.

- Promoting achievements: If the application of IT in innovating teaching methods of teachers is

consistent with the standards, the management staff should have encouragement and encouragement. If any teacher achieves at the excellent level, the management staff can propose to reward or summarize the lessons for other teachers to learn.

- Handling: If any teachers' results of IT application in innovation of teaching methods are inconsistent with evaluation standards, there are serious violations of principles in IT application, then management managers need to make handling decisions for these teachers exactly.

5. Discussion

Applying IT in innovating teaching methods and managing the application of interactive technology in teaching innovation is a difficult problem for educational managers and teachers. In recent years, Vietnam-Soviet Vocational College No.1 has achieved certain results on the application of IT in innovation of teaching methods and management of IT application in innovation of teaching methods, but there are still many shortcomings. To solve those shortcomings, the author has proposed 6 measures to manage IT application in innovation of teaching method. Through testing, the author found that the proposed measures are necessary and highly feasible. However, there are some recommendations that need to be made for discussion:

a) For the Ministry of Education and Training

There should be specific guiding documents on the application of IT in teaching activities and innovating teaching methods, especially guiding the design and use of active teaching lesson plan with IT application and electronic active teaching lesson plan in vocational colleges in the field. for the whole country. Organize training classes for teachers at vocational colleges nationwide on the design and compilation of active teaching lesson plan with IT and electronic active teaching lesson plan applications. Establishing a Website to provide teaching software and reference materials, IT application experience of domestic and foreign teachers and educational managers, helping teachers in the country to apply IT in exchange. new effective teaching method.

b) For the Ministry of Construction

- Establishing a team of experts; specializing in researching on the application of IT in innovation of teaching methods by each industry and profession.

- Regularly organize seminars, refresher classes; on the application of IT in innovation of teaching methods for teachers of schools, vocational training institutions; in the whole industry.

- Having policies to attract talents / in the IT field in vocational training institutions of the Ministry.

- Creating conditions for teachers to visit / practice in vocational schools in the country as

well as vocational schools of countries in the region and around the world have had many successes in applying IT in innovation of teaching methods. .

- Further strengthen the inspection and examination for the IT application in innovation of teaching methods of vocational schools and vocational training institutions.

c) For the Vietnam-Soviet Vocational College No.1

Each management staff of the school needs to identify management as a difficult job, especially managing the IT application in innovation teaching method is even more difficult. So to be able to successfully manage the IT application in innovation. Teaching method, each management manager should try its best in its management and have the following specific jobs:

- Ensuring the conditions for the school to well implement the measures that this topic has built.

- Self-researching and researching to improve their theoretical level of educational management in general and IT management in innovation of teaching methods in particular.

6. Conclusion

In Vietnam, the application of IT in innovation of teaching method has been attracting the attention of scientists as well as educational management levels. In particular, the application of IT in the design and use of mathematical teaching syllabuses with IT application is of interest to both Education - training and vocational training. Financial teaching syllabus with IT application is an active teaching lesson used in the IT application environment, contributing to innovation in teaching methods, so the inevitable direction of a modern education is to use lesson plans. Active teaching lesson plan has IT applications. The strength of the mathematical teaching lesson plan with the application of IT is the use of active teaching methods using modern technology to guide the organization of students' cognitive activities that are attractive and attractive without spending much time. , presentation and interpretation time. With the active teaching lesson plan with the application of IT, the whole lesson concept is completely shown in both text channels, video channels and language channels. However, machines are only a means to make the lesson better it is not all. The effectiveness of class hours still requires a combination of the art of leading lectures and the methods and measures that teachers organize actively learning hours. To prepare lectures with the mathematical teaching syllabus with IT application requires teachers not only to have solid basic knowledge of the subject and good and suitable teaching methods, but also must have a minimum level of informatics such as proficient use. softwares such as Word, PowerPoint, Photoshop, Video Maker...know how

to access information through the Internet and are proficient in using modern technical skills. In addition, teachers also have to know how to select lessons and lessons that are suitable for designing and using the mathematical teaching lesson plan with IT applications, to avoid the abuse of IT, which has counterproductive effects. To avoid this situation, school administrators need to consider the management of IT application in teaching method innovation as a breakthrough to improve the quality of school education, thereby spending more time and effort on this job. Meanwhile, the study of the current status of IT application and application management in teaching teaching

innovation in departments, faculties and centers in the Vietnam-Soviet Vocational College No.1 shows many limitations and shortcomings. So the author has focused on researching systematically on management theory in general, school management theory and especially management theory of IT application in innovation of teaching methods. On this basis, the author has researched the current situation of IT application and management in teaching teaching method innovation in faculties and subjects of the Vietnam-Soviet Vocational College No.1 to propose 06 measures to manage IT application in teaching in accordance with the school's vocational training.

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Tóm tắt

Tác giả bài báo đã nghiên cứu chi tiết thực trạng quản lý ứng dụng công nghệ thông tin trong đổi mới phương pháp dạy học ở trường Cao đẳng nghề Việt-Xô số 1, phân tích mặt mạnh, mặt yếu, nguyên nhân khách quan, chủ quan từ đó tác giả bài báo đã đề xuất được 06 biện pháp hiệu quả để quản lý ứng dụng công nghệ thông tin trong đổi mới phương pháp dạy học ở trường Cao đẳng nghề Việt-Xô số 1 trong bối cảnh cách mạng công nghiệp 4.0 hiện nay. 06 biện pháp quản lý đã được khảo nghiệm về tính cần thiết và tính khả thi đối với các cán bộ quản lý của trường Cao đẳng nghề Việt-Xô số 1, phân tích kết quả và đánh giá 06 biện pháp quản lý có tính cần thiết và tính khả thi cao.

Từ khóa

Ứng dụng công nghệ thông tin; Quản lý ứng dụng công nghệ thông tin; Đổi mới phương pháp dạy học; Trường Cao đẳng nghề Việt-Xô số 1; Cách mạng công nghiệp 4.0.