

## Research on the Construction of Curriculum System of Ict Profession Competence and Accomplishment

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**Keywords:** Information and communication technology, Professional competence, Curriculum system

**Abstract:** The rapid development and wide application of information and communication technology (ICT) have changed the traditional knowledge media and the reading and writing foundation of human beings. Modern computer-based information and communication technology is bringing great changes to our education and teaching. Using information technology to improve the efficiency of language teaching and learning is one of the important fields of educational innovation. From the perspective of teachers, the concepts of technological revolution, technological threat, technological uselessness and teachers' technical ability have affected the use and mode of ICT to some extent. The advent of Internet plus digital era has put forward higher requirements for the curriculum system and comprehensive skills of ICT industry talents. Information literacy puts forward new cognitive requirements for social individuals, changes the learning mode and knowledge accumulation process of social individuals, and opens up new ideas for education and teaching. In this change, teachers should integrate ICT into Teachers' professional ability, combine technology with people, and play the greatest role of technology.

### 1. Introduction

The development of information computer gave birth to Internet, and the combination of mobile terminal and Internet gave birth to mobile Internet. With the rapid development of information technology, the old reading and writing ability, which symbolizes the traditional culture upbringing, is far from meeting the new development trend of digitalization and globalization [1]. Modern computer-based information and communication technology is bringing great changes to our education and teaching. Using information technology to improve the efficiency of language teaching and learning is one of the important fields of educational innovation [2]. In the education field, more and more people regard technology as a way to break through the limitations of traditional teaching. They believe that technology will bring revolutionary impact to education and are full of hope for the prospect of technology in teaching [3]. Computer-centered ICT (Information and Communication Technology) has penetrated into all fields of social life with the rapid development of the network. In the field of education, ICT has become a powerful driving force for educational reform [4]. The development of ICT industry needs to cultivate high-quality technical and skilled compound talents with knowledge integration and skill cross-border. The use of ICT in education has gradually made some new educational concepts a reality and has changed the traditional form and operation mode of education in some aspects [5]. For example, the emergence of television and open universities has made the number of registered students exceed the limit of the number of traditional schools, and has also caused changes in students' learning styles. For education, ICT is not only a content to be learned, but also an auxiliary tool for traditional education, and an important factor to promote the development of the whole education system [6]. In this transformation, teachers play an important role. ICT should be integrated into teachers' professional ability, and technology and people should be organically combined, so as to play the greatest role of technology.

## 2. Information and Communication Technology Manifestations and Their Impacts

With the development of digital technology, multimedia electronic texts are becoming more and more popular. Computers are gradually replacing paper as the most common information dissemination tool. All kinds of convenient and fast network interactive tools are gradually changing people's lives and becoming a part of society and culture. For many teachers, their original knowledge and understanding of ICT is not enough, and it is difficult to ensure that they can correctly understand how to use ICT to support teaching. The emergence of the Internet is a revolution in human communication technology. It has changed the way of human communication in the world and provided vast resources. Readers can freely choose and take in information according to their reading purposes and needs. This form of free reading of information and the cognitive difference between readers will directly determine the form of text understanding and the results of understanding. Teachers can choose appropriate software or tasks to support the learning process between students and computers, and help students learn to put forward the kind of problems that can enable them to move forward smoothly to the next stage. For the content of resources, those approved by everyone in use shall be reserved, and those found problems in use shall be uploaded again after repeated discussion and modification.

During the period of school, students will try to start a business, and invite experienced entrepreneurs to make a business report for graduates. Many college teachers have the problems of narrow concept and insufficient understanding of the new curriculum. As shown in Table 1, the survey of vocational education management curriculum field.

Table 1 Survey of Vocational Education Management Courses

	Curriculum view	Curriculum resources	Course implementation	Curriculum evaluation	Curriculum reform
Average score	8	8	7	7	6
Accuracy (%)	66.1	56.7	61.1	61.8	63.9

In the information age, students are no longer students in the traditional sense. They have their own unique methods in acquiring knowledge, mastering and using information skills, which also challenges teachers' professional status and knowledge authority. Different types of information formats in multimedia electronic texts will determine individual reading methods and reading ways, and different readers cannot use a unified and standardized way to read texts mixed with multiple interactive modes on the screen. For general problems of information technology, some on-site discussions can be solved [7]. Some teachers reflect more concentrated technical problems that cannot be solved within the group. They can choose another time to invite information teachers from our school or other schools to carry out training. Different types of information communication modes are controlled and realized by different logic. However, the differences in logic usage among individuals can not only change the surface and deep meaning of text information, but also change the ideas, concept combinations and knowledge structures that individuals draw from the text. In the ICT environment, teachers are required to change their inherent and inappropriate teaching values and behavior habits, so that teachers can enjoy the comfort brought by this technology when learning and applying ICT. They will then actively learn ICT and actively apply ICT in the teaching process.

## 3. Construction of Curriculum System of Professional Ability and Accomplishment

### 3.1 Respect for Students' Career Development Needs

Cooperation is the key to ensure the effective use of ICT and overcome the disadvantages of ICT. Cooperation at various levels is not only conducive to teaching but also a requirement of ICT itself. More and more attention has been paid to the cultivation of communication and cooperation ability. The wide application of information and communication technology has changed the social distribution of information resources and people's ownership of it, broken the balance between

teachers and teaching situations, changed the educational relationship between people, and caused the weakening of the authority of educators. As the use of new technologies in teaching will constantly challenge the original teaching model, there are still quite a few educators who are skeptical and resistant to ICT. ICT communication and cooperation among teachers, increasing the opportunities for interaction among colleagues, help to improve teachers' sense of teaching effectiveness. In this way, together with other teachers to participate in the discussion of the problems encountered in the project [8]. Information literacy requires social individuals to expand from traditional text processing capabilities to a new generation of logical processing capabilities for image text, from traditional text writing capabilities to multimedia text and web page design capabilities. The use of ICT in teaching does not simply change the blackboard into an electronic blackboard and textbooks into courseware. It is an innovative process to redesign the presentation of content based on the analysis of curriculum objectives and learning theory [9]. The concept of technology determines the motivation and enthusiasm of educators to use ICT in teaching. In various understandings of technology, the concepts of technological revolution, technological threat and technological uselessness have affected the use and mode of ICT to some extent. At present, schools at all levels do not consider ICT when promoting professional titles. Some educators use a lot of time and energy to design their own courses, but this kind of labor has not been recognized and rewarded by schools. In order to make educators use ICT with confidence, we should not only train educators' technical ability, but also have technical troubleshooting programs, so that teachers can quickly restore the teaching status in case of technical failure.

### **3.2 Setting up Professional Core Courses**

The use of ICT in teaching does not simply change the blackboard into an electronic blackboard and textbooks into courseware. It is an innovative process to redesign the presentation of content based on the analysis of curriculum objectives and learning theories. Teachers' teaching experience has the greatest influence on the sense of efficacy. Successful experience can improve one's sense of self-efficacy. To enable educators to use ICT with confidence, they should not only train educators' technical ability, but also have technical troubleshooting programs, so that teachers can quickly restore their teaching status when technical failures occur. A technology can become a means only when it uses a specific symbol rule, finds its place in a special social environment, and slowly seeps into the economic and political context. Some educators use a lot of time and energy to design their own curriculum, but this kind of labor has not been recognized and rewarded by the school. After class, feedback should be given in time, discussions should be organized, and observation teachers should be asked to express their views on the use of information technology in observation classes to improve teaching effect and facilitate teachers' teaching behavior according to their own recorded observation scales.

## **4. Conclusion**

Mobile Internet has always been developing rapidly, and opportunities are fleeting. We need to have a strong sense of crisis, and constantly pay attention to and study the development trends. In the information age, students are no longer students in the traditional sense. They have their own unique methods in acquiring knowledge, mastering and using information skills, which also challenges teachers' professional status and knowledge authority. As the use of new technologies in teaching will constantly challenge the original teaching model, there are still quite a few educators who are skeptical and resistant to ICT. Cooperation is the key to ensure the effective use of ICT and overcome its disadvantages. Cooperation at all levels is not only conducive to teaching but also to ICT itself. Among the various understandings of technology, the concepts of technological revolution, technological threat and technological uselessness affect the use and mode of ICT to a certain extent. For students, cooperative learning and ICT use should be regarded as complementary and mutually reinforcing. In order to make educators use ICT with confidence, we should not only cultivate the technical ability of educators, but also have solutions to solve technical problems, so that teachers can quickly restore their teaching state in case of technical problems.

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