

Ways to Cultivate Students' Innovative Ability in Computer Teaching in Colleges and Universities



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Abstract: Cultivating college students' innovative ability in learning computer knowledge and skills plays a key role in students' future learning development and comprehensive level improvement. Because of the continuous innovation of science and technology level, the computer knowledge system and operation technology will also progress along with it. If students only rely on surface knowledge to improve their ability, they will not only fail to meet the initial expectations, but also be difficult to meet the teaching needs in the new period. Therefore, it is necessary to comprehensively analyze the actual situation and work out a scientific, reasonable and practical training mode. In this way, on the premise of ensuring students' active participation in teaching interaction, it can also strengthen students' basic ability and computer operation level. This paper analyzes the ways to cultivate students' innovative ability in computer teaching in colleges and universities.

Keywords: universities; computer teaching; innovation ability; cultivation approach

1. Introduction

In modern society, computers have been integrated into all walks of life, and their special advantages can already determine the development prospect of a certain field. In addition, the all-around development of science and technology promotes the continuous updating of computer technology, which leads to the continuous improvement of the current social talent demand standards and computer special skills requirements. Therefore, to better conform to the development of the times and meet the needs of social talents, colleges and universities should change the previous mode of cultivating students, innovate teaching methods, and realize the necessity of cultivating students' innovative ability in the new era. Besides ensuring that college students learn and absorb the perfect basic knowledge of textbooks, they should also be guided to establish good innovative ideas, and constantly improve their self-innovative ability and innovative thinking while ensuring the overall improvement of their skills and professional knowledge.

2. The positive significance of cultivating students' innovative ability in computer teaching in colleges and universities

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2.1 Promoting the improvement of students' thinking concepts

In the past, most college teachers used basic theory teaching to impart computer knowledge. Although this method can better help students lay a solid foundation of knowledge, considering that computer is a practice-oriented discipline, too much knowledge teaching and superficial practice teaching are not enough to meet the talent training standards, and it is difficult to meet the current social talent demand standards. However, this kind of teaching negligence can easily limit the future development of students. The in-depth implementation of the teaching idea of cultivating innovative ability can better inspire and scientifically guide it, encourage students to question and express bravely, constantly explore and analyze what they have learned, and actively innovate, to stimulate their potential. Under the promotion of a variety of advantages, it can also indirectly cultivate students' consciousness of independent knowledge seeking, so that students can learn and master deeper professional computer knowledge, improve their comprehensive ability, and promote students' professional skills, thinking concepts and innovation ability to improve in an all-round way (Yu, 2021).

2.2 Strengthening students' pre-job adaptability.

With the development and progress of society and the gradual scientific and technological development of the market industrial structure, the standards of enterprises' demand for talent are

constantly improved. This also directly shows that the demand for talent in the future industry is not only in terms of professional knowledge and basic ability, but also requires talents to have a good quality level and the development pattern of the new era so that they can better adapt to and face the rapidly developing modern society in the future. To realize the above practical problems, colleges and universities must change their teaching methods and concepts in the process of carrying out practical teaching work, fully combining the future jobs of this major and the needs of the real society, and paying attention to cultivating students' innovative ability. In addition, it is necessary to expand the teaching content, scientifically adjust and optimize, rationally arrange the teaching tasks, and clarify the teaching and training objectives. And integrate it into practical teaching, further strengthen the training benefits of innovative ability, and ensure the comprehensive improvement of students' pre-job adaptability.

3. The specific measures to cultivate students' innovative ability in computer teaching in colleges and universities

3.1 Strengthening the interest in teaching situations

Starting from the basic teaching mode, the teaching method should be transformed according to the overall situation of students. Teachers can construct teaching situations, enrich the teaching elements and teaching contents, fully improve the interest in teaching knowledge, guide students to actively participate in classroom teaching activities, and create rich teaching situations such as game activities, task inquiry, knowledge contests, etc. through various means, and incorporate knowledge elements that meet the teaching requirements, to further strengthen the benefits of cultivating innovative ability(Zhou, 2021).

For example, in computer Photoshop knowledge teaching in colleges and universities, teachers can create a life-oriented teaching situation according to the actual teaching situation and the required teaching knowledge content, divide students into groups according to the same number of students, and arrange their learning tasks according to the teaching contents in this chapter, so that they can give full play to the imagination of the group, and make photos and people interesting by using Photoshop. For example, the group takes photos together, and then everyone uses Photoshop tools to decorate them according to their inner thoughts to make them more interesting; You can also choose some backgrounds or cartoon pictures from the materials provided by teachers, design your works, and state the design concept of your works. Finally, you can use the competition method to carry out pk, stimulate their desire for knowledge and interest in

learning, cultivate their spirit of unity and cooperation, and comprehensively improve their innovative ability.

3.2 Setting up open teaching tasks

Under the social background of the new era, if one has the good innovative ability and innovative thinking, one can not only strengthen one's learning ability, but also find another way in life and work, and constantly combine practical experience to put forward more advanced views and practices, thus realizing self-worth and further promoting one's development. However, with the improvement of social and economic levels, the pressure of talent competition is increasing. To cultivate a large number of outstanding talents that meet the social needs in the new period, colleges and universities must realize the necessity of cultivating students' innovative ability, scientifically designing teaching plans, rationally arranging teaching tasks, ensuring the openness and operability of teaching tasks, and encourage and guide students to think and explore from an innovative perspective(Shen, 2021).

For example, in the knowledge teaching of computer dynamic web design and production, teachers can set up open tasks, so that students can make dynamic web pages according to their interests or inner thoughts, and they can also fully integrate their favourite things into them, lift restrictions and let them play and practice boldly, not only to ensure the beauty of web pages but also to ensure their practicality and reasonable overall layout. While highlighting the interest of the webpage, it can better fit in with the content of teaching knowledge in this chapter, which on the one hand cultivates students' innovative thinking, and on the other hand, improves students' practical ability of computer knowledge.

3.3 Giving prominence to students' dominant position and constructing an innovative teaching atmosphere

The upgrading of computer technology has also caused certain difficulties in computer teaching in colleges and universities. Teachers should not only innovate more advanced teaching methods regularly to conform to the development of the times and teaching reform but also take into account the actual situation of students themselves and their adaptability to the new teaching mode. In addition, with the continuous improvement of talent requirements, how strengthening the efficiency of cultivating students' innovative ability has become the most basic teaching task at present(Li, 2021). In this regard, teachers should first highlight students' dominant position, respect students' differences, constantly understand and analyze students' inner changes and actual feelings in the learning process, encourage students to innovate, guide students to express, and actively express their novel ideas. Then, teachers should design and arrange teaching tasks based on

this, and incorporate some cases and contents that are closely related to real society, so that students can innovate their learning content according to their real knowledge content, to train students how to flexibly integrate computer technology into new classroom teaching; During this period, teachers should intervene and guide appropriately, build a positive learning atmosphere in the classroom, and make use of the learning environment to edify students in a deeper level, to speed up the cultivation of their innovative ability.

4. Conclusion

To sum up, computer technology is developing rapidly, and facing its good prospects and development trends, the standards of talent demand for computer majors in various sectors of society are also greatly improved at this stage. Therefore, to better guarantee the overall improvement of computer technology for college students and their adaptability to future jobs, colleges and universities should actively organize diversified teaching activities to cultivate students' creativity, seize the shortcomings and problems existing in the current teaching, and take this as the core to cultivate students' subjective consciousness, so that they can not only master good technical skills but also have

the ideological concept of keeping pace with the times.

Conflict of Interest

The authors declare that they have no conflicts of interest to this work.

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