Research on the Cultivation and Improvement Strategies of University Teachers' Innovative Consciousness and Ability Based on Network Technology

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Abstract. In the computer network technology age, teachers in institutions of higher learning are responsible for the important tasks of cultivating socialist builders and successors. The main body of teaching reform is teachers. To cultivate high-quality talents with innovative ability, it is necessary to improve the innovative consciousness and ability of college teachers to have a new educational concept, noble personality and perfect knowledge and ability structure of the profession. To this end, colleges and universities should establish a teacher training system, take the road of integration of teaching and research, and let students participate in the evaluation of teachers' teaching quality, establish an effective incentive mechanism, and create a relaxed academic environment.

Keywords: Higher Teachers, Talent Cultivation, Innovation Awareness, Innovation Ability, Network Technology

1. Introduction

As an important part of quality education, innovative education aims to explore people's creative potential, promote people's subjective spirit, promote the harmonious development of human personality, and maximize the cultivation of human creativity. It is a brand-new educational thought that adapts to social development. Therefore, it is incumbent on the higher education institutions to carry out innovative education. As the main body of implementing innovative education, teachers have an irreplaceable position and role in stimulating students' curiosity, imagination, strong desire to create, and cultivating students' innovative spirit and innovative ability. Therefore, in the process of implementing innovative education, college teachers must first cultivate their own sense of innovation and improve their ability to innovate.

2. The status of the cultivation of university teachers' innovation ability in China
At present, most researches on the educational abilities of young teachers in China are based on the status of young teachers and the importance of strengthening the construction of young teachers. They have proposed countermeasures and suggestions from the aspects of strengthening training, establishing evaluation and evaluation mechanisms, and incentive mechanisms. The teaching of young teachers in colleges and universities from the aspects of basic teaching skills, teaching attitudes, teaching methods, teaching content, teaching effects and the main factors affecting the quality of young teachers' teaching. The ability was investigated and analysed. Through investigation, it is found that most teachers of young teachers work hard, are enthusiastic about teaching work, novel and vivid teaching content, and advanced teaching methods. However, due to the experience and experience of young teachers, there are still some shortcomings in teaching methods, means and teaching contents. It still cannot adapt to the needs of the development of modern education and teaching. The problems are analysed from the perspectives of young teachers themselves, school management and social factors. Suggestion and measures such as establishing evaluation mechanism, strengthening education and training, establishing guarantee and incentive management mechanism are put forward[1].

![Percent Changes: Student Innovation Index](image)

**Figure 1.** The Changes of College Student Innovation Ability.

3. College teachers' innovation awareness and innovation ability improvement measures

3.1. Optimize the teacher training system

In terms of teacher training objectives, the cultivation of innovative qualities must be the core task. In terms of training content, strengthen teachers' professional ethics education to arouse their strong sense of responsibility and mission; strengthen teachers' innovative knowledge education, introduce new subject knowledge and modern thinking methods, and open up teachers' thinking horizons; strengthen teachers' psychology Quality training to prepare them for a strong desire to create and to be creative. In terms of training methods, a combination of theory and practice is adopted. Through observation, centralized discussion, program analysis, on-site investigation, dialogue and communication, etc., teachers can become the main body of training. Teachers participate in domestic and international academic conferences, exchange lectures or high-level training activities, so that they can keep abreast of the frontier dynamics of the discipline, update the teaching content, improve the teaching and
research methods. Thus, achieving the goal of truly improving the overall quality and innovative ability of teachers[2].

3.2. Establish and improve the teaching evaluation mechanism

To carry out the assessment and evaluation of young teachers' education, it is to use the method of performance appraisal to check and evaluate the ability and effect of young teachers' education and teaching activities. To assess and evaluate the education and teaching of young teachers, on the one hand, it is necessary to mobilize the enthusiasm of young teachers for education and teaching, and to promote the improvement of the teaching and learning level of young teachers, and then mainly to use the results of assessment and evaluation to identify problems in the education and teaching of young teachers, so that targeted training is improved. At present, most colleges and universities have not fully evaluated and evaluated the educational ability of young teachers. Some colleges have implemented evaluation and evaluation of teachers from both teaching and scientific research. Some universities have also carried out evaluations on the effectiveness of teacher education[3].

4. Strengthening the Significance of Training College Teachers’ Innovative Ability

4.1. Create a good campus education environment

Concept innovation is the source of all innovation. The concept innovation of young teachers in colleges and universities is inseparable from the campus environment and campus culture of colleges and universities. The construction of an innovative environment for quality education and innovative education also requires the attention of leaders at all levels and a sound logistics support system, as well as scientific and orderly management and a good humanistic environment for college campuses. Only by further strengthening the construction of an innovative education environment within the university and creating a good environment for quality education and innovative education can we truly implement the cultivation of innovative talents[4].

4.2. Effectively improve the quality of innovative teaching in colleges and universities

Microscopically, from the many factors that determine the quality of education and teaching, the educational ability of teachers is a very important key factor. Educational ability is the basic condition for teachers to successfully complete teaching activities, and is the decisive factor for improving the quality of education and teaching and achieving educational goals. Chen studied in the "Educational Competence Theory and the Educational Reform of Higher Normal Institutions" that modern educational practice and educational theory have proved that a teacher can be qualified for education, directly related to his educational ability, the level and level of modern education is very high. It depends to a large extent on the level and level of teacher education. After entering the century, social development will place higher and higher requirements on education, and the level of teachers' ability will become a key factor in education. The advantage of any country in terms of faculty is actually the advantage of teachers' ability[5].
5. Conclusion

The implementation of innovative education requires improve teachers' innovative consciousness, and there are many ways and methods to cultivate and improve innovative consciousness and innovative ability. Firstly, university teachers should learn computer network technology knowledge and grasp the scientific law of education. Secondly, college teachers should actively carry out scientific research and be at the forefront of the discipline. Finally, teachers should improve their knowledge structure and improve their quality in an all-round way. Only in this way can colleges and universities shoulder the important task of training socialist builders and successors, and teachers have the required innovative and practical abilities[6].

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