

Big Data and the Teaching Reform of University Computer Public Basic

Tingping Zhang*

School of Information Science & Engineering, Chongqing Jiaotong University, Chongqing 400074, China. E-mail: ztp@cqjtu.edu.cn

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Abstract : With the advent of the era of big data, the teaching reform of computer public basic courses in colleges and universities has also put forward new challenges and requirements. This paper points out the common problems of the teaching mode existing in computer public basic courses in colleges and universities, discusses the present situation of the big data technology rapid development, so as to explore how to change teaching conception, innovating teaching mode, teaching method and so on, achieve big data technology and the integration of computer public basic course teaching, and improve students under the background of big data better computer learning, which cultivate students exercise of big data and Internet thinking of thinking, and improve students practical ability and innovation ability in computer application.

Keywords : Big Data Era; Computer Common Foundation Course; The Teaching Reform

With the vigorous development of information technology, the application of big data has become more and more extensive. It exerts a subtle influence on the development of society and people's daily life and work in all walks of life, making our society enter into the big data information age environment in the development of the information age. In such an environment, computer public basic course teaching in colleges and universities also have an effect, big data as a new thing, and it is closely combined with computer. If according to the traditional teaching mode of teaching, certainly students not be able to correct understanding of the objective understanding to the concept and application of the large data, this makes the school and the teacher appear bad deviation in the process of cultivating the social talent. Therefore, the reform of computer teaching, integration of the concept of big data, training students' comprehensive learning ability and innovative thinking ability, is currently the most effective trend of talent training.

1. Problems existing in university computer teaching under the environment of big data

Big data is the product of the development of science and technology. In short, through a large number of effective data and statistical theories, we can judge the development of a series of things in a targeted way, so as to help people make more scientific progress in life. Therefore, in such a big data environment, the information acquisition of college students will become relatively miscellaneous, which will have a certain impact on the teaching of public basic computer courses for college students. Although its teaching has been paid much attention by many universities, there are still many problems in the actual course teaching.

First of all, because of the different living environment between students, some of the students in high school has been contact with computer, and even for some families have special training of the students, mastering the computer better than some college

teachers, while others are new to the computer. Due to the different environment, students' ability to master the basic computer varies to a certain extent. Such a large gap often prevents teachers from taking into account all students in their teaching. Secondly, because of the immobility of class system, also makes different differences of students need to accept the same teaching schedule, tends to be made between the student body of learning appears the trend of decline, in the face of the same teaching content, weak foundation of students study not good, and good students without the necessary foundation, it will make the whole classroom atmosphere gradually the lazy. Thirdly, in the process of teaching, teachers often blindly carry out theoretical teaching, and the concepts related to big data and computer cannot be well mastered only by relying on pure theory. The lack of practical theoretical knowledge cannot enable students to make progress and improvement in the use of computer.

2. Reform strategies of university computer teaching under the environment of big data

2.1 Adjusting the teaching content

To make some relative teaching content adjustment, the teacher needs to be able to have a certain degree of understanding of students' basic mastery of computer, which the students' computer ability strong, computer control ability is weak, and so on, which students can undertake to the student in the form of a hierarchical, so as to adjust the teaching content. Teachers in the process of practical teaching by means of the interpretation of the same teaching theme, make different ability of students to answer different questions, in order to make students of different ability in the whole class to be able to gain the knowledge, which is helpful to improve students interest in computer learning in large data environment. It also allows all students to work together to build a healthy and positive learning atmosphere. For example, when teaching with "big data thinking" as the theme, teachers can bind computer knowledge with big data thinking, so that students can develop their own big data thinking while learning simple basic computer knowledge, thus improving students' thinking expansion and big data analysis ability. In the subject teaching teachers can guide some computer ability weaker students to answer the basic knowledge of short answer, and encourage some basic good students the concept of the big data analysis and thinking. Although everyone in the same kind of knowledge, but in fact they can go to a better improvement. At the same time, all students can have a certain understanding of basic computer knowledge, the concept of big data and the way of thinking, and students who are weak in foundation but talent for learning computer can make better progress.

2.2 Changing the teaching mode

In big data environment, teachers in the teaching of computer public basic courses in addition to adjust on the teaching content to enrich the students' learning content, but also in the process of analysis and comb, what are the teaching content and teaching methods to inspire students to learn more enthusiasm, which the teaching content and no significant to the promotion of students' enthusiasm to help and so on. Through the analysis of students' learning data and taking it as an effective basis for adjusting teaching data, it is of great help to the improvement and innovation of teaching mode. For example, in the actual classroom teaching, following through to the basic knowledge and concept, through the way of problem driven or practical way, we can guide students to explore the teachers' questions and thinking, and in this process, teachers observe the students' learning and practice through the students' learning behavior and difficult point of knowledge, so as to effectively sum up a more suitable teaching mode to further learn the key and difficult knowledge. Therefore, in the environment of big data teaching, teachers can not only guide students to learn and master the computer, but also through the way of thinking of big data teaching, guide their own teaching to improve their teaching effect. In this way, students' learning rules can be summed up and students' learning can be better guided, and teachers' teaching and students' learning can form a two-way guidance function under the environment of big data.

2.3 Improving the assessment of teachers

In the teaching of public basic computer courses under the environment of big data, schools can establish an information platform to make teachers and students better communicate and share teaching materials, which is of great help to the effective communication between teachers and students. Many teachers are usually focused on the teaching theory ignores the students'

practice, think as long as the students grasp the theoretical knowledge, then it will be able to better the implementation of the theory in practice. In fact, teach students theoretical knowledge is important, but the same professor theory for the study of computer only can be the foundation, let the student practice in a real project or operation is often more important than theoretical knowledge. Only when this teaching problem is effectively communicated between teachers and students can it be better realized, so it is particularly important to strengthen the harmonious and equal relationship between teachers and students. By establishing the information platform to promote effective communication between teachers and students, it needs to further perfect the evaluation system of teachers. Only when teachers improve their teaching level and have a full understanding of big data and computer majors, can they give more detailed and accurate answers to students' questions, so that students are more new to teachers and the teacher-student relationship can be further improved. Only in this way can teachers fully mobilize students' enthusiasm for learning in the actual classroom teaching, so that students can better play their initiative to learn, and learn computer in the environment of big data.

3. Conclusion

To sum up, under the environment of big data, China's information technology teaching has had a profound impact, but in fact, there are still many problems in the teaching of efficient computer, such as single teaching content, no attention to students' practical operation, and too old-fashioned theoretical teaching. Therefore, teaching reform is the only way to improve the overall development of students, and it is also the important responsibility of teachers in the process of continuous development of the times. Only through comprehensive improvement and optimization of teaching content, teaching mode, teacher-student relationship and teacher team can teachers train talents under the environment of big data more fully.

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