

Practice and Thinking of Distance Teaching of College and University during Prevention and Control of New Coronavirus Pneumonia

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ABSTRACT.In the beginning of 2020, novel Coronavirus came along with a violent attack, and all communities across the country adopted a closed management, requiring residents to “isolate at home”. As the school term was approaching, the Ministry of Education required all school students to be forbidden to enter the school, and proposed the goal of “stopping classes without stopping school”.Based on epidemic prevention and control during the “database principle course” remote teaching, for example, to the chengdu university computer college to carry out the remote teaching summary on the practice and thinking in the process of teaching, I try to make full use of the super star in the teaching learning, tencent class network teaching platform, realize the closed during the teaching, students can watch live online online questions, answer, line to hand in homework, discuss the exchange learning and so on each link of the remote teaching, closer to the largest extent in daily classroom teaching.This paper discusses the common problems that may be encountered in distance education and the effective countermeasures. In order to provide reference and reference for online distance education, to ensure the effect of distance education, improve the quality of distance education.

KEYWORDS: Superstar learning channel, Online class, Distance teaching, New coronavirus pneumonia

1. Introduction

Network teaching is during the outbreak of the new champions league teacher to the student to carry on the remote teaching, the main means and forms, require students to autonomous learning at home, school, the teacher should be strictly in accordance with the requirements of the school schedule normal teaching at home, do every closed is not suspended, therefore, teachers can according to need to adjust the inherent teaching mode, content and teaching methods of learning to elaborate organization, and through the wireless network, communications and other modern communication way between classes of students and their parents at home and keep in touch, remote mentoring teachers at home, students are making full use of network teaching platform and a variety of digital resources to carry out independent that occupy the home Learning.

Distance teaching mainly refers to the use of wireless communication, network, multimedia, computer and other electronic equipment and Internet technology for teaching, communication contact and other forms of education. With the development of modern education technology in our country and improvement of the deficiency of the remote teaching gradually improved, and its advantage, such as broke the limit of time and space, the traditional education can better meet the high quality education resources sharing, to maximize the development of education effect, etc., more and more widely welcomed by the education workers and students.During the epidemic prevention and control period, we made full use of distance learning to effectively carry out teaching work, and thus achieved good teaching results.

2. Introduction to Superstar Learning Channel

Super star Learning channel is a professional learning platform for smart phones, tablets and other mobile terminals. Users can learn in a super star on self-help complete electronic collection of library's information query, electronic library resources search software download, library information browsing, learning the lessons of the school, group discussion, look at the school address book, have electronic books, newspapers, journals and at the same time the Chinese and foreign academic literature metadata, for the majority of users provide convenient mobile learning information services. In addition, after teachers create their own courses, they can sort out the course contents and

relevant materials and transfer them to the platform, such as teaching PPT, lesson plans, course videos, after-class exercises, etc. Students can directly enter the class on the student client by using the code scanning function of the mobile phone, so that they can easily share the knowledge and data transmitted on the teacher. In addition, teachers can also use the live broadcast terminal of Super Star Learning Com to broadcast the course at home. As long as students choose the corresponding PPT and exercise explanation, they can talk while talking. The live videos can also be saved through mobile phones for students to watch and review after class. At the same time, the learning Pass provides functions such as sign-in, testing and q&A. Teachers and students complete a series of interactive operations online and offline. It can learn the knowledge on the classroom at home, do not stop the main purpose of school.

3. Tencent Classroom Introduction

Tencent Classroom is an intelligent online education and training service platform independently developed by China's Tencent Group. Due to its strong server-side technology, stable network signal, multiple people attending online video lectures at the same time, smooth picture, real-time synchronization of audio and video courses, and good online audio and video live teaching effect. At the same time, Tencent classroom supports diversified video teaching modes such as PPT animation presentation and screen video sharing, and also provides teachers with teaching functions such as whiteboard and questions. It has greatly improved the uneven distribution and development of online education resources in China. Relying on the mobile Internet, it has broken the time and geographical restrictions, so that every young person who is determined to learn and has a dream can receive professional online guidance and teaching from excellent teachers at any time. At the same time, I also hope to give excellent teachers a good platform for information exchange and teaching achievements display.

4. The Teaching Practice Process

4.1 Prepare Before Class

Educational administration department in advance to all class students list is imported into the super star platform, class teachers using the new super star learning curriculums and named after the database principle, the class class list import course in class a few days ago, teachers and students through learning began teaching platform to communicate "first", to test the efficiency of the teaching platform and stability, and prepare for subsequent formal class. Classes a week in advance to send learning tasks, upload powerpoint teaching, the development of electronic materials and related data, address by learning the course upload information through direct inform each student, 10 minutes before the formal class, the teacher began to open check function, students receive notice login check-in, then log on to their tencent class, get ready for class; In formal classes, teachers are also required to follow the teaching plan, and the teaching process is similar to the classroom.

4.2 Online Teaching

Online classroom lectures by tencent class, in class, students for a long time to watch the lecture video network, fatigue, dispersed the students attention, middle may vote by student, small in-class test, group discussion, to some students who study speech interactive links such as, such interactions can fully arouse the enthusiasm of teachers and students can keep part of the initiative of students in learning and attention; Check the answers of all students' questions and replies in Tencent QQ group through mobile phones, find out the questions raised by most students, and conduct real-time interactive communication and problem solving with all students by using Tencent QQ voice or whiteboard in online class; After learning this course, tencent class will automatically record and save the online real time clearly every teacher and every student in the class list, and each of the students and teachers into the classroom and online students dropped out of the online course of time, then the teachers learn by super star lead to confirm the each class all the students' attendance and the class content and situation of feedback, and reasonable arrangement in accordance with the contents of the attendance and real-time feedback next tencent the main content of classroom teaching.

4.3 Construction of Online Course Resources

The sharing and construction of online course teaching resources mainly include uploading teaching videos, teaching courseware, electronic textbooks, question Banks, database, etc., among which the key is the construction of teaching videos and question Banks. At the same time of sharing screen teaching, the video recording software is used for screen teaching. After class, the video will be sent to the Super Star Learning Pass platform for students to use in after-class review. The establishment of a supporting teaching test question bank, including different levels and

difficulty of the examination questions, questions are mainly choice, judgment, simple, programming, design, etc. At the same time to provide a rich teaching database, including teaching related animation, pictures, documents and other teaching materials. With the progress of the online teaching process, teachers' personalized recording screen, new teaching resources, test questions, excellent homework completed by students and electronic after-class homework are constantly supplemented into the online teaching course resources, and teaching optimization is continuously carried out.

4.4 Monitor Your Learning

Teachers at any time to upload the study materials, after-school homework or test paper, in the study on group chat or discussion area and to interact between students, teachers can also register online learning through mobile phone at any time or learn the client computer in real time and place, to view all the learning activity of teachers and students, including students in general attendance, video watching the progress of the students' teaching and test complete the progress of the case, the subjective topic discussion of students (it can be finished by the client to choose to be discussed topic report, powerpoint, etc.), etc., while objective by learning platform for students score, subjective topic by classroom teachingThe teacher marked and graded the students online. All the teaching activities of teachers and students in school will be recorded in detail on the learning channel for the convenience of students' self-study and teachers' supervision and supervision.

4.5 Teaching Reflection

According to students' learning data and learning behavior, teachers should timely adjust the content of lesson preparation and teaching means of next week. Teachers in the teaching and research office should keep close communication with each other, discuss various problems encountered in the implementation of online distance teaching, reflect on the advantages and disadvantages in the teaching process, and then draw up corresponding improvement measures to ensure the teaching effect and improve the teaching quality.

5. Problems Encountered in the Course of Distance Learning and Countermeasures

5.1 Part 1 Students Lack Self-Discipline

One of the major problems of online teaching is that some students lack self-discipline. They often complete or fail to complete the learning tasks in a delayed manner, requiring teachers to constantly remind and urge them, or plagiarizing and perfunctory work. Only some students study hard, discuss actively and interact with teachers. With this situation, I tried a variety of teaching methods in order to improve the students' self-discipline, such as:

(1)establish a study group, and rewards and punishment system, through the leader urged members, complete the task, to send screenshots to team leader, make good record, compare the students take the lead of self-discipline learning task to complete for a better team can give team members plus rewards, whereas the point deduction, to enhance students' learning initiative and team honor;

(2)Due to the large number of subjects and heavy tasks, students will feel tired when staring at the mobile phone screen every day, which is not conducive to the efficient completion of learning tasks. Therefore, teaching videos should not be long. Tests and discussions mainly reflect some representative knowledge points with appropriate task volume;

(3)Ask questions online during the q&A session, the students who are asked need to reply by voice immediately, then encourage everyone to speak freely and summarize the speech, which can increase the interaction between teachers and students to a certain extent;

(4) Integrate ideological and political education into online teaching to encourage students to self-regulate.

5.2 Students' Learning Behavior is Distorted

Student online learning process includes teaching video watching, finish the homework, participate in discussions and class sign in a variety of learning content, but the content in the process of behavior also exists certain information distortion and error phenomenon, such as teaching students don't want to watch video, hang machine software could be used directly to hang, assignments and discussion can also let the other students do, issuing, study on the function of the check is not accurate, is the students can use the software for on-hook issuing. Aiming at these problems, I also adjust

some teaching methods in the test, such as (1) it is difficult to control students hang up to watch the teaching video, but the teacher may homework to students in the video, set the video to watch can't drag and drop, correct answer one of the top 10 students can get the corresponding points, which can greatly promote the students must learn to watch video of teaching;(2) the students' general can be divided into two categories, the following test, a test is mainly to knowledge and common topics, automatic extraction can be set randomly test, subject setting out-of-order, another kind is largely designed for students with comprehensive complex computer programming test, even on the Internet is difficult to let the students search for some expression of appropriate questions and answers, students must achieve mastery through a comprehensive study hard carefully, so you can get good grades and scores in the test, but the strength of a teacher's work;(3) For the sign-in problem, students can be required to summarize the key content of each class and write it down in a special notebook. The next group sign-in will be taken by photo (the face is required to be in the same box as the notes of the key content of the last class), which can not only avoid proxy signing, but also urge students to study seriously.

5.3 Online Experiment Teaching

Database principle course also contains some relevant experiment contents of the database because the database experimental courses generally cannot live by all teachers to be responsible for guiding students how to operate the database experiments, students at the time of diy for the database experiments, sometimes don't know where is the experimental error, can let the student through watching course teacher ever recorded in the database experiment demonstration video, understand its aims, operation steps, thinking embodied database results of experiment theory and write a complete report.

6. Conclusion

After the implementation of distance teaching in the course of "Principles of Database", students' participation in autonomous learning has been greatly increased, and some basic knowledge has been solved before class. However, in the process of application, the Superstar Learning Channel Communication platform needs to be further optimized, because the assessment of students' learning basic judgment and learning effect is not rigorous enough, the collection of basic big data is not high, and the true degree of students' completion remains to be verified. Due to the haste of setting up the learning Pass this time, it is necessary to have a certain incentive system for the assessment of students in the later stage, but generally speaking, the learning pass platform has been able to meet the basic learning requirements of students. To sum up, the application of Superstar Learning Channel to the teaching of "Principles of Database" in special periods can promote the improvement of students' professional skills. The adoption of network teaching means in special periods also lays a certain foundation for the formation of mixed classroom teaching mode in the future.

Students can use the superstar learning Channel to enhance their interest in learning, take discussion as the orientation, and force them to study independently and complete the corresponding task points. However, compared with the traditional offline teaching method, the online long-distance teaching platform lacks the face-to-face communication and interaction between teachers and students. Therefore, it is a trend of future teaching reform to combine the advantages of online distance teaching and traditional offline teaching organically.

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References

[1] lu haixia, wang yuan, zhang li, et al. "Practice and thinking of distance teaching of basic medical courses during

covid-19 epidemic prevention and control". China journal of medical education technology, Vol.2, No.34, pp.135-137+142, 2020.

- [2] Liu Yan. Teaching Practice of "Electrical and Electronics" course under the guideline of "School Suspension without suspension, Learning without delay", Contemporary Educational Practice and Teaching Research, Vol.2, No.13, pp.5-6, 2020.
- [3] Zhang Yongxia, LI Juanjuan. "Application of Flipped Classroom based on Super Star Learning Pass in Distance Teaching", Science and Technology Vision, Vol.5, No.20, pp.12-13, 2020.
- [4] zhu can, Chen dayong, wang yan, et al. "Exploration of online distance education based on chao xing learning tong - a case study of physiology course". Chinese traditional medicine modern distance education, Vol.11, No.18, pp.3-5, 2020.