

Study on Mobile Phone Management Mode of College Mathematics Classroom under the Situation of “Internet + Education”

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Abstract: In view of the current educational situation of “Internet + education” and the use of mobile phones for students in college mathematics class, this paper analyzes the advantages and disadvantages of several current mobile phone control modes, and puts forward mobile phone management methods for different majors, classes and students.

Keywords: Internet + education; Colleges and universities; Mathematics classroom; Mobile phone management mode

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Preface

In the second half of 2019 began a lot of work from offline to online, all kinds of video conference software such as Zoom, MOOC, tencent meeting, nailing classroom, QQ, learning, wisdom class gradually become the main tool of daily learning, office, through nearly three years of online class, students, parents and school teachers are obviously feel the impact of online classroom. Although there are many high quality teaching resources, the vast majority of families can also provide online classroom required hardware facilities, but has one of the biggest disadvantages: teachers cannot real-time control students, large, primary school students almost cannot discipline control electronic devices such as mobile phone, primary and middle school students and parents control, but college students are basically adults, they can use mobile phones to do nothing to do with learning, which leads to online classroom teaching effect is poor.

1. The current situation of students using mobile phones in college mathematics classes

With the continuous update of smart devices such as mobile phones and the continuous emergence of various online teaching resources, students have more and more ways to acquire knowledge, students should learn better, and the exam failure rate should be lower and lower, but the reality is not the case. Through the teaching of mathematics courses in the past decade and the investigation of mathematics teachers in our university and some other universities, it is found that the failure rate of mathematics courses is high. This is not because the test questions are increasingly difficult and young teachers do not have rich teaching experience, but the low pass rate, the difficulty is more and more simple, and the teachers are mostly teachers; the teaching experience, many teachers responded that students do not use their mobile phones in learning, but spend most of their time browsing videos, online games, chat software and other things unrelated to learning.

Mathematics subject is different from other subjects, it is difficult to explain how image, vivid, knowledge, the vast majority of mathematics courses for quite a large number of students are boring, difficult to understand, so the more don't understand the more don't listen to, the more don't understand the knowledge and more, slowly gave up this kind of course learning, so some students simply don't listen to the class. There are also a considerable number of students use mobile phone chat, browse the web; There are some students in class while the teacher is not paying attention to see the content irrelevant to the course, When the teacher

approached, immediately switch to the online teaching video screen; Some students are wearing headphones from beginning to end, The content must be irrelevant to the course, Only a few students use their mobile phones to watch teaching videos in class, But this situation is not advocated by the teacher; Teachers generally do not oppose students studying by themselves, But have to be done outside the class, Using class time to self-study by yourself will not only spend a lot of time, And the effect is relatively poor, get half the results with double the effort, Because some knowledge points and details due to the network and time restrictions online teaching video may not be able to speak, So in class, students should closely follow the teacher's thinking and think actively, Online teaching videos are only complementary to knowledge, And can not be used as the main source of the knowledge learned.

In view of the above situation of using mobile phones, many teachers have also put forward and implemented some control methods, but the effect is not very ideal. The following will introduce some classroom mobile phone management methods commonly used by teachers.

2. Several common mobile phone management modes and their advantages and disadvantages

Teachers of almost all courses have a consistent view: as long as students can control their proper use of mobile phones, college students must receive much more knowledge than in the past. However, due to many other reasons, many teachers can not effectively control students' mobile phones, which seriously affects the teaching effect and quality.

2.1 No mobile phones into the classroom

In view of the low pass rate of freshmen in the higher Mathematics exam and the use of mobile phones in math classes, some teachers will work with the head teacher or counselor to formulate a mobile phone management plan: students are prohibited from bringing mobile phones into the classroom. However, such a move failed in less than a month. Because now college life is inseparable from mobile phones: notice, information, canteen, library, etc. will use mobile phones; and college students also have the right to use mobile phones, almost no university will prohibit mobile phones into the classroom, so the original intention of this plan is good, but not realistic, difficult to implement.

2.2 Use mobile phone storage bag

Some colleges and majors use mobile phone storage bags to realize no mobile phone classroom. This kind of storage bag has different sizes, which can hold about 50 mobile phones. Before class, all students are required to put the mobile phones into the corresponding bag according to the two students according to the student number.

If it is a small class with no more than 50 students, this method works, but all students cooperate; at the beginning, some students can consciously put the mobile phone into the storage bag, but still some students are not willing, slowly more and more students no longer put the mobile phone, and then the storage bag becomes decoration. For some courses, students who do not understand in class need to use their mobile phones to take photos and record their thinking and review after class, so it is not very humanized.

If it is a big class, Especially for public courses such as Higher Mathematics, Linear Algebra, and Probability Statistics and Mathematical Statistics, About 140 students from different colleges and majors take classes together (most public math courses are like), Some professional student numbers have been ranked to more than 100, It is possible that the student numbers of the last two numbers are the same, The storage bag is useless, It's impossible to put all the students' mobile phones away; much less, For math courses, it is more necessary to use a mobile phone in class to take pictures of the places you do not understand first so as to study carefully after class, If there is no mobile phone, it will affect the course learning.

Comprehensive above the big class, small class two situations, the use of mobile phone storage bag is not very humanized.

2.3 Use the signal shielding equipment

Almost all college classrooms have installed signal shielding equipment for use in large national exams, but it is unclear how well such equipment can screen mobile phone signals, because it is usually hardly opened, and the examinee and invigilators' mobile phones are not allowed to be brought into the examination room during large exams. According to the visit to several universities, Although most classrooms are equipped with such equipment, But almost not in ordinary times; And now the network communication equipment is developing very fast, Has a network device that carries WIFI, Accept its network signals within a radius of 10 meters, And most of the classroom installed signal shielding equipment is relatively high and not convenient to open; If the shielding equipment can screen out the WIFI signal of the wireless device, and the class teacher can easily turn on the signal shielding equipment, Then the students can be more comfortable listening to the class, This is a better way to manage mobile phones, But it is a pity that the signal shielding equipment of several universities I visited is not convenient to open, It must be adapted to use.

2.4 Active intervention of teachers

As the main body of teaching work, teachers should control the classroom teaching from the perspective of responsibility, which can not only teach the subject well, but also control the pace of the classroom. But college class is different from the primary and middle school classroom, primary and middle school students in class without mobile phone, so teachers will have more time and energy into teaching, and university classroom basic every student has a mobile phone, especially for mathematics courses, because of its highly abstraction, it is difficult to explain this kind of course how vivid, concrete, more difficult to understand. If students are slightly distracted in class, it is difficult to keep up with the pace of the teacher, and gradually more and more cannot keep up with the teaching progress. In the long run, some students will play mobile phones in class. If the teacher ignored this part of the students, which violated the responsibility of the teacher will also affect their studies, but if the teacher stop to deal with such things, will disrupt the ideas of teachers, and spend a lot of time, and part of the students with this don't listen to any preaching, also can affect the effect of other students, thus affect the whole course teaching progress. Therefore, in order to avoid such a result, teachers should "agree" the classroom discipline with the students in the first class, emphasizing the treatment of playing mobile phones in class: for example, once deduction, let those students who play mobile phones in class answer questions, and determine the deduction score according to the answer. With the agreement, although the processing will delay time, if it can be strictly implemented from the beginning, I believe that fewer and fewer students will play mobile phones in class. In this way, the teacher's teaching effect will be more ideal.

3. Exploration of mobile phone management mode

In view of several mobile phone management methods, the corresponding management methods should be made according to the professional and different number of people.

3.1 Small class specialized courses

For specialized classes with less than 50 students, teachers should ask students not to play with their mobile phones in class. The courseware needs to be used reasonably, but make an "agreement" with the students in advance: if you use a mobile phone to do things unrelated to study, you will be punished accordingly and strictly implemented; Because of the small number of students, teachers can watch the actions of each student, even if there are illegal use of the teacher can also find and stop; can also use the mobile phone storage bag, but adopt the principle of voluntary, do not force each student to put the mobile phone into the bag. If the signal shielding equipment in the classroom is easy to open, the two, the effect will be better.

3.2 Big class public class

For different colleges and professional classes together public mathematics courses, the number of mobile phone bag is unrealistic, teachers are impossible to pay attention to every student move, more unlikely to prohibit students to bring mobile phones into the classroom, so the more effective way is to open the signal shielding equipment in the classroom to block the students use the network software, so that there will not be no more students classroom play with mobile phones, teachers can focus more attention on teaching and classroom management; at the same time, teachers should also formulate corresponding punishment measures to restrain those who insist illegal use of mobile phones. These two aspects are done well to receive a better teaching effect.

4. Conclusion

In short, no matter what kind of mobile phone management mode, in order to students can better growth, all need the relevant departments of school, teachers alone is difficult to control good students' mobile phone, only hardware (signal shielding equipment), software (classroom discipline, punishment) are done, then the education and teaching reform measures to play a greater role.

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