Some Basic Ways to Take a Live Class Easily--Take Xi 'an Conservatory of Music for example

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ABSTRACT. *The scope and scale of online teaching during the epidemic have created a new peak in online teaching, which is unprecedented in the history of higher education in the world. Since our school is an art college, the course setting has certain particularity. In the post-epidemic period, with the new normal of online teaching, a set of practical, simple and easy-to-grasp live broadcast strategy operation plan combining with the actual situation of our school's courses will undoubtedly be of great benefit to teachers in practice. Communication software is the most basic element to carry out live broadcast teaching. Choosing the right practical equipment can make teachers get twice the result with half the effort. This paper compares three kinds of practical communication software and introduces two kinds of practical tools that can be applied to live broadcast teaching. On this basis, it sorts out several kinds of live broadcast teaching schemes in the hope of helping teachers.*

KEYWORDS: *Live teaching, Communication software, Equipment, Teaching program*

1. Introduction

Under the background of "suspension of classes without suspension of classes", the most intuitive approach is to replace traditional classroom teaching with live broadcast. After returning to school, facing online teaching becomes the new normal [1], how to quickly get a set of practical live broadcast schemes? How to choose a live broadcast software to meet their teaching needs? What tools can I use to get twice the result with half the effort? A series of problems swarmed in. To answer these questions, we need to clarify the following issues.

2. The Conditions for Live Online Teaching

1.1 Communication software: one of the most basic and important requirements of online live teaching is to establish a connection channel

between teachers and students [2]. This paper introduces the characteristics of the following three types of software:

Firstly, the most familiar online live teaching communication software are QQ and WeChat, which can be used to achieve the instant online teaching. The advantages of this kind of software are as follows: firstly, it has the advantage of client, which has been widely used in daily communication between teachers and students, so it has strong affinity; In addition, the class group has been established, so there is no need to install and register again. The operation of video calling is easy and can be realized immediately. At the same time, meet the basic teaching interaction and teaching data transmission and sharing function. Their obvious disadvantages include: not being able to carry out effective course material management; Lack of student management function, carrying out class hours and basically unable to interact effectively;The teaching process video cannot be saved and generated automatically, and students cannot replay the learning.

Secondly,the most mainstream software at present, Nail, is generally recognized as suitable for this stage of the product. Its advantages are as follows: stable function of live broadcast, supporting 302 people attending the conference at the same time, easy to use and easy to grasp, visual statistics of students watching live broadcast; Adapt to a variety of terminals to meet the needs of teachers and students;The default live broadcast is permanently saved for playback. It supports video export and playback. If students miss the live broadcast, they can replay the live video. With group management, file management and other functions, intelligent document support online submission and comments.

Finally, there is currently software used in colleges and universities: Focus, is a mobile scene facing video conferencing software. Its advantages mainly include: professional audio and video optimization strategy, supporting 100 people to attend the meeting at the same time, and automatically adjusting the optimal quality according to the network condition on the premise of ensuring smoothness; Adapt to a variety of terminals, multiple people share screen, program, file, web page; In the meeting group discussion, open chat, subtitle; The meeting content is recorded to the local, and the meeting data report is formed after the meeting.

2.1 Practical Equipment for Online Live Broadcast Teaching: to Carry out Online Live Broadcast Classes Easily, of Course, Practical Tools Are Necessary.

First of all, the introduction of the first small assistant: writing pad. If the teacher is only occasionally circular dot, the use of the mouse can be achieved. If the teacher is accustomed to speak while writing, writing more content, you can prepare a tablet and computer connection, make writing more fluent and efficient, save time and effort. Recently wACOM

CTL672,High Man 1060PRO and Draw King GC710 are popular products, easy to operate.

For another,we have to mention the mobile phone tripod. With the help of live mobile phone tripod can achieve the performance techniques, singing and dance skills to present fresh. For better results, give teachers two tips. First: live before, in addition to adjust the light, need special attention is that, due to the dance classes, teachers in the teaching process is moving, so be sure to adjust the tripod in advance height and the distance between the teachers' position, to determine the depth of field, the movable scope to do in a simple tag, in order to avoid in the process of the broadcast out of the picture. Second, in the selection of scene,it is suggested that the courses of instrumental music should be selected for medium and near scenes, while the courses of dance performance should focus on distant and panoramic scenes.

3. Live Online Teaching Program

Understand the live teaching tools and software, the teachers urgently need to choose according to their own teaching content a kind of easy, meet the demand of broadcast scheme, to meet the needs of teachers teach in our school recently, in line with "simplified and efficient" principle, to provide the corresponding basic solution, for teachers to choose from.

Teaching form	Classes	
	One on one, group class	Class
Knowledge teaching	WeChat, qq	DingTalk,zhumu
Talking and writing	Qq or DingTalk or zhumu + Computer + tablet	DingTalk or zhumu + Computer + tablet
Dance performance	DingTalk or zhumu + Mobile + tripod	
Instrumental music playing		
Vocal music singing		
Papers reporting		

It should be added that if the teacher has the class management (such as pre-class sign-in) and homework management (homework submission and review) requirements, then the first choice is to nail software support; Focus on multi-person communication, discussion ,interactive display preferred to focus on the software to support; Teachers can also use a variety of software in combination to give full play to software functions and strengths to meet more needs; If there is a high requirement for sound quality, teachers can also prepare sound CARDS, microphones and microphone racks as needed to achieve more satisfactory live sound effects.

4. A Few Suggestions for the Teacher

4.1 Full and Active Teaching Preparation

To prepare for everything is to make sure that nothing is done beforehand. Sufficient teaching preparation is the basis and premise of online teaching.

Create a good teaching environment to add points to students' learning experience.

Simulation and test: Carry out teaching simulation and test equipment effect in advance.

Application the teaching software and platform skillfully.

Group classes: No student should be left behind.

Rules: such as attendance system, assessment system, to ensure a good teaching order.

4.2 A Good Information Environment under the Online Course

☐ Doa good job in teaching design: analyze learning situation, determine teaching objectives, conduct teaching design, make self-learning task list and push it to students.Increase interactive feedback,promote the interaction of thinking and the symbiosis of wisdom [3].Make good use of open education resources:Such as open courses,MOOCS,SPOCetc, to push appropriate learning resources for students to better serve students' independent learning and personalized learning.

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