

Thoughts on the Application of Micro-class in Interior Design Based On Education Informatization

Xin Zhang^{1,a}, Xinyue Zhang^{2,b,*}

¹ Guilin Normal College, Guilin, China

² Lijiang College of Guangxi Normal University, Guilin, China

^a465278111@qq.com, ^b4525823015@qq.com

* Xin Zhang

Keywords: educational informatization, The class, Interior design.

Abstract. Micro class, as a product of the digital age, has been gradually used by various disciplines and teaching activities, and it has a certain impact. The teaching activities of interior design attach importance to graphics and information interactivity, for example, the introduction of micro class will lead to better teaching effect. The paper takes interior design course as the research object, and makes analysis on application status of micro class combining with the current college teaching evaluation standard. It does research on the problem of construction in the interior design of the micro class, in the hope to find out the defects of the teaching process which micro class is applied for the interior design, and find the corresponding measures.

1. The introduction

In today's society with rapid development of educational information technology and quickening pace of life, people tend to choose short and concise cultural forms that are easy to be absorbed and selected to enrich life and meet the needs of study and work. As a new way of teaching, micro class cannot only reflect the teaching characteristics of theoretical knowledge, it can give full play to its charm in classes showing the practical skills. Under the influence of new media technology, the fact that students can learn and enhance learning efficiency anytime, anywhere has been recognized by the vast majority. However, at present the implementation of micro class teaching in indoor design has favorable environment, but the implementation is quite less. So it is necessary to study the basic technology and the construction need of micro course development.

2. About micro class

Micro class, namely miniature course, refers to the teaching video which records the teaching content (a single knowledge node) for no more than 10 minutes. It is a supplement to classroom teaching resources. These short courses are the embellishment of learning activities, which is beneficial to enhance the study of the subject. On the other hand, micro class can provide students with buffet-style learning resources -- whether it is learning in class or reviewing after class, it can promote students' understanding of some key knowledge points and master some difficult skills. At the same time, micro-lessons can let students focus their attention on a single topic in a short time, thus improving the efficiency of classroom learning.

The aim of micro-class is to achieve the teaching objectives and break through the key points in the teaching process. The design process of micro class generally includes several steps of teaching analysis, teaching design, micro class development, implementation and evaluation. The design of micro-course should not only meet the requirements of teaching design, but also meet the requirements of time, grasp the effectiveness, highlight the advantages and ensure the efficiency, so that students can focus on learning within 5-8 minutes and achieve the learning effect of "generating unlimited creativity within limited time".

3. Analysis of current status of micro class teaching in interior design

In recent years, the interior design profession develops rapidly, and the teaching content it involves is also quite extensive. The micro class teaching mode can be applied in both theoretical and practical courses. Some problems exist in the present teaching process of interior design: first of all, from the perspective of the acceptance of micro teaching, it is generally acceptable by students. However, due to different quality of the professional teaching faculty in current interior design, part of the older teachers are relatively traditional, who did not consider the high-tech teaching, which leads to the relative backwardness in teaching way; there is also problem of imperfect hardware and software teaching facilities, as well, the teaching way is backward. Secondly, the influence of micro class in interior design course. From the perspective of teaching content, micro class focuses on the detailed explanation of knowledge points, while classroom teaching is to integrate multiple knowledge points. From the point of teaching time of micro class, micro teaching time is short, but the organization and the choice are not obvious in the micro class, which makes no big difference between micro teaching and traditional teaching. Compared with the traditional teaching, the teaching time of micro class is compressed, which is not good for the transmission of micro class in teaching of interior design; Third, teachers are lack of training on the technology of micro class production, and they often spend a lot of time and energy to spare more time and energy to complete the 10-minute workload of micro class, which is not worthwhile... From the perspective of these problems, the traditional teaching of interior design has been unable to meet the development of modern education, and the popularization of educational informatization in interior design teaching still needs to be improved, especially the popularization of micro-course teaching in interior design teaching and the improvement of micro-course production technology are quite necessary.

4. Reflections on the application of micro class in interior design courses

4.1 System planning of micro courses

Current teaching resources of micro class increase gradually, but because of the lack of system planning, with the implementation of a micro teaching courses in the planning of the content are relatively messy, we can see from the results of the survey that the current micro class has become the main auxiliary tool in the interior design teaching. The relationship between micro class and interior design major is analyzed, and micro class is planned systematically. Taking a certain difficulty as a unit, multiple units connect with each other to build into the reticular structure, in order to ensure the correlation between knowledge points. In this case, high quality micro teaching resources are set up to guarantee that micro class can be systemic.

4.2 Student-centered education philosophy

Micro class is a micro video of the teaching content within 10 minutes. Video should be combined with the teaching content and students' learning process to form a complete micro course. If you leave the learning activities of students and only record the content of the teacher's teaching activities, it is essentially a recorded video recording classroom teaching, which can be used as a learning material without forming the system of micro course. Therefore, micro class should be built on the student-oriented education concept. In the process of micro-course design, students' experience should be taken as the center, with clear voice, clear picture quality, concise page and correct content, so that students can feel that teachers are conducting one-to-one tutoring. A good micro class can not only enable students to effectively acquire knowledge, but also enhance students' love for new learning methods. No matter it is the way of explanation, or some technical requirements, it should ensure that students can master the knowledge through learning.

4.3 The use of a variety of technical means can reduce the threshold of micro class production

For some teachers, they take a positive attitude towards micro class. However, due to certain difficulties in the production of micro class, it is difficult to independently complete the production, and it even takes a lot of time to make micro class. In view of this situation, we believe that schools

should provide relevant technical and knowledge training for these old teachers. Technological advances are in the service of teaching, and the discovery of digital information is to reduce the work load of human beings. For example, video playing can be used, the contact number plate is posted directly on the computer screen for blackboard writing and online modification; Real-time classroom communication with students by means of voice is more convenient than using cameras, voice equipment or later video editing, which can reduce the workload of teachers. The rational use of new technology will not only reduce the burden of teachers, but also reduce the intensity of teaching. One-way knowledge transmission in the past to video, audio, text and image transmission, real-time interactive classroom communication can be realized, especially the digitalization of images, which enables the demonstration and correction of teaching process to break the limitation of time and space, and is more suitable for the teaching development of interior design major at present.

Regarding the development of micro class, the following questions should be paid attention to:

What tools should be selected for micro class, production tools are generally divided into recording and editing: recording can be done by mobile phone, Pad, camera or screen recording, the commonly used screen recording software includes super screen recording, FSCapture, CamtasiaStudio+, Microsoft Office Powerpoint 2007 version and so on; Commonly used video editing software includes editors, drawing, CamtasiaStudio, love editing, etc. The commonly used picture editing software includes PhotoShop, Auto ACD, Meitu Xiuxiu, light and shadow magic hands, etc. Common audio processing software includes CoolEdit, Audition, Goldwave, audio editing experts; Common audio and video format conversion software includes format factory, video conversion expert, audio conversion expert, etc. Commonly used CD burning software includes CD burning master, Nero, etc. Commonly used two-dimensional code generation site includes Caoliao two-dimensional website, liantu.com, etc. The combination of "super recording screen + editor + Meitu Xiuxiu + format factory + CD burning master +MindManager 14+ Caoliao qr code" is recommended. The software is free and it is easy to use.

How to choose the topic is the key to the success of micro class, improper topic selection is also disadvantage of a lot of micro classes. The topic selection focuses on the key points, difficult points, doubtful points and easy points of teaching, and the explicit knowledge or the organization of teaching activities should not be selected. The scope of the topic selection should not be too large, it is recommended to make a series of micro class if there are more content, series of micro class both be independent with each other, but also interconnect with each other. There is only one criterion for a good micro class, that is, problem solving, which can solve the problems students encounter in learning.

What is the suitable time span, a very important characteristic of micro class itself is short and concise. The length of micro class determines the fragmentation of micro class content, and the content should be explained thoroughly in a short time, rather than generalize it. Some scholars put forward that a micro class can only explain one knowledge point. The author believes that multiple knowledge points with high content relevance can be explained according to the actual situation, but the time should not be more than 10 minutes.

Whether the teacher's portrait should appear. Some scholars believe that the appearance of the teacher's portrait in micro class is beneficial to students' understanding of the teacher, while others believe that the teacher's portrait will distract students' attention. However, it should be noted that the micro class selected or produced by teachers should be consistent with the teaching design in the teaching process. Teachers should completely "enlighten" and "dispel" students one by one, and make students feel that teachers are only providing individualized guidance to them. The author suggests that the micro-lesson made by screen recording mode should not show the teacher's portrait as far as possible, and the micro-lesson of material operation or demonstration should show the teacher's image.

What are the technical requirements? Many teachers tend to ignore some technical problems in the process of making micro class, which leads to the failure of the micro class to achieve the desired effect. As a teaching video, micro class should meet some common technical requirements of video, and its content presentation should also ensure its characteristics of being concise and beautiful.

4.3.1 Content requirements

Content, text, pictures, language and so on must be accurate. Many teachers use video recording method to make micro class, and the design of teaching presentation is the key to the success of this method. The structure of the teaching presentation is clear and reasonable, page style remains consistent, monochrome is used in background color as far as possible with reasonable color collocation.

4.3.2 Audio requirements

Regarding language expression, the voice should be loud with language that is easy to understand, being simple, detailed and appropriate, mass audience type words should not appear such as "you", "everyone", "students" and other. Common audio formats are AAC, MP3, or WAV.

4.3.3 Video requirement

Picture quality is clear, video size is 640*480 or 320*240, the format is FLV or MP4. If teachers' portraits are required to be presented, the portraits shall not block the teaching content in the recording mode.

4.3.4 Production requirements

During recording, the computer resolution is adjusted to 1024*768 and the color digit is 16 bits. The beginning and end of the film should be added to the recorded video should be to show the title, author, unit and other information.

5. Conclusion

Micro class is a new thing in educational informatization, and many problems worth in-depth study and reflection. It is helpful to enhance the effect of classroom discussion, but teachers must be able to adapt to the new dynamic situation when using it. Although this dynamic provides opportunities for practical application and in-depth discussion in class, the dynamic transformation is often difficult to control. Micro class has some shortcomings in the breadth, depth and complexity, because it is recorded in advance and it is difficult to support the qualitative analysis of temporary problems. Therefore, even if one micro class is connected, it cannot replace traditional teaching. It can only be a supplement to classroom teaching resources and a key explanation of classroom knowledge nodes. Only when traditional teaching is combined with micro class teaching and mutual cooperation is required can classroom effectiveness be guaranteed.

Acknowledgement

This work was supported by Guangxi's "13th Five-Year" educational planning project: Construction and application of micro class based on "Internet +" art design (project No: 2017C483).

References

- [1] Qiong Li. Micro-course application and organizational exploration of interior design in higher vocational colleges. *Design*, vol.11, pp. 105-106, 2015.
- [2] Gang Sheng Song. Analysis and research on the current situation of micro-course in interior design. *Research on art education*, vol.12, pp. 115-116, 2015.
- [3] Zhiqiang Wu. Micro-course application and organization analysis of interior design in higher vocational colleges. *Modern decoration (theory)*, vol.7, pp.269, 2016.