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Research Article

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The distance teaching model of political education course based on CSCL

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ABSTRACT

Based on CSCL system models, combined with the status IT teaching, this essay explores and designs a new teaching model for IT education which based on CSCL synchronous and asynchronous modes simultaneously applied. This article discusses the teaching mode 'implementation details in achieving IT courses taught curricular and extracurricular collaborative learning and improving the student's ability. Finally, it discusses the reality of thinking which brought by CSCL applications.

Keywords: CSCL; Information and technology; applications; collaborative learning

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INTRODUCTION

CSCL(Computer Supported Collaborative Learning) refers to learning activities in the learning environment while the construction of a computer network carries out co-operative learning[1]. It is a strategy of organizing small groups of students through team learning. And team members through a collaborative learning environment are an integral part of the learning objectives. That constitutes a computer LAN or WAN, This teaching method focused on mutual cooperation relationship between students and teachers and among students.It helps to learn high-level cognitive skills, interpersonal teaching objectives related skills and emotional attitudes. More importantly, there is no time limit, geography, age, nationality,so language learners can be free in online collaborative learning [2].

THE DISTANCE EDUCATION MODEL BASED ON CSCL

The Distance Education Level Model based on CSCL

The distance education level model shown in Figure 2 is a computer platform as the core application support environment where the computer network can be various forms of computer networks, including the common LAN and Internet. Of course, the most extensive exchange of IP-based network [5]. remote education system under the support of CSCL, you can easily make different regions, sectors, levels and ages to achieve mutual exchange of learning in CSCL system, members held a variety of different thoughts, ideas and opinions come together to provide a wealth of references and reference for learners through frank exchanges and mutual assistance to each other, so that everyone can be in a variety of positions and the starting point to look at the problem; while due to the diversity and broad exchange of content, the skills of prompting the students' communication and self-expression are also rising.

THE DISTANCE EDUCATION COLLABORATIVE LEARNING MODEL

Collaborative learning model emphasizes the real-time teaching activities , and mainly refers to the process of teacher lectures and students lectures occur simultaneously，students and teachers answer questions simultaneously , group discussions between students occur simultaneously , etc., and all teaching behavior occurs in direct face to face collaboration environment between learners.The distance education collaborative learning model is shown in Figure 3. CSCL platform is the center of distance education, while it is involved in collaborative learning distance education for teachers and students to meet the ITU (H.323) / T. 120 multimedia communication standards and data conferencing standard service capabilities for remote collaborative participation in teaching teachers and students to

send audio and video multipoint, multipoint courseware sharing , whiteboard and other services. Explorer provides a virtual space to virtual space services for teachers and students, so that teachers and students can apply for or use an existing virtual space and real-time collaborative teaching partner distance learning on Internet / Intranet environment virtual space explorer management related resources,resource usage statistics.Users(collaborative learners) can be applied to the resource explorer virtual space. The virtual space explorer arranges resources based on the decision to accept or reject the application and platform for users to understand by CSCL use of each of the virtual space and allows users to arrange for their own learning curriculum. Users (collaborative learners) can arrange lectures to develop their own learning plan based on your interests and time.

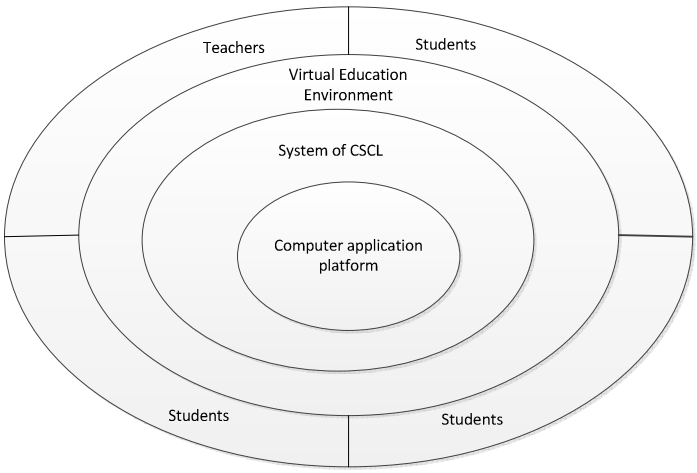

Fig.1The distance education level model based on CSCL

Remote collaborative teaching is inseparable from courseware authoring publishing system. Clients include collaborative distance learning for teachers and students [6].You can simply use Microsoft NetMeetimgsoftware through CSCL platform for real-time collaborative distance learning in communication. We can also use NetMeeting of software Development Kit (SDK), to develop a specific real-time multimedia communication system of education. By NetMeetimg, they can talk, send and receive video, input and transfer text, share application between students and teachers and students and students. Participants can both on the drawing board with images, text collaboration, can also pass each other file.

THE CSCL DESIGN OF IT TEACHING MODE

Construction of new teaching model, we must choose advanced educational ideas, teaching theory as a guide.CSCL model can be proposed and implemented in case of advanced theoretical foundation and the concept of education, teaching theoryconstructivist theory. Constructivism stressed that learning is the process of learners to construct the internal psychological structure actively, which includes not only structural knowledge, but also the experience of a large number of non-structural background. It emphasized that students in the learning process active construction of knowledge, meaning , and try to closer , more in line with the actual situation of contextual learning activities with personal experience of the original , faith-based psychological structure and to construct new knowledge ,while new knowledge gives personal understanding of the meaning. For the current status in IT teaching analysis, we must give full play to their advantages of information technology to improve teaching quality under the conditions of allocation of resources is lagging behind. With CSCL model features a combination of teaching analysis, we explored the CSCL in IT teaching mode: CSCL synchronous and asynchronous teaching mode interleaving teaching mode to use

SYNCHRONOUS CSCL TEACHING

(1) Design Ideas

The so-called synchronous CSCL teaching refers to the teaching of information technology in the classroom to the theme-based teaching, and the creation of collaborative learning environments [7]. Teachers will explain the integration of knowledge creation theme of the work by the division of labor through group collaboration and the exchange between the two groups, so that students acquire skills in information technology to improve mission-driven learning environment. In this teaching model, teachers are mentors and observers to the students answering questions; students are the subject of learning to complete paintings creation through collaboration group work. In this teaching mode, in time, teachers have to co-ordinate the overall idea of the creation of the task to develop semester theme works, stage works authoring tasks; In space , teachers have to design reasonable convergence strategy curricular teaching and extracurricular group collaborative learning task.

(2) The Teaching Process Design

① Course introduction: The stage is based on learning objectives, to determine the theme of collaborative learning,while creating collaborative learning environment.

②Analysis of learning tasks and learning objectives: to support the use of network teaching platform for teaching demonstration, tell the students learning tasks and learning objectives, while giving students demonstrate skills. For example: how to collect information, how to post on the BBS forum for discussion, and the use of message boards, e-mail and other offline cooperative modes, so that students are proficient in web browsing, searching, exchanging, guaranteeing future asynchronous collaborative learning students and students , smooth communication between teachers and students.

③ determine collaborative team structure and division of roles:research shows [8], students learn in a collaborative team with good organizational structure better than traditional forms of organization to form study groups , but the class is reasonable will directly affect the quality and effectiveness of learning . For example, our students are divided into groups based on the similarity between the themes of common desire to learn and the student's personality conditions, broadly consistent with the time of their group activities. In the experiment, we had 56 classes divided into eight groups, and to determine the division of learning a team leader, who is responsible for the team members. Such as: responsible for gathering image , responsible for collecting the text , music, responsible for collecting charge of the layout and the like.

④collaboration among team members : achieving collaborative activities , including collaboration and coordination on extra-curricular classroom. To achieve BBS, chat rooms, e-mail and remote collaboration platforms : through a network of communication tools .

CSCL THINKING IN THE APPLICATION OF INFORMATION TECHNOLOGY EDUCATION

Computer Supported Collaborative Learning(CSCL) is today's network environment as an important learning strategy, which breaks the traditional teaching model,between teachers and students,students and students,students and teams produce multiple multi-directional interaction,the ability of students, attitudes, feelings, experiences, and many other aspects have a profound impact.It is the application of information technology in education,is playing a full use of the advantages of computer network media, virtually repair the current IT education problems, the teacher can teach the application of information technology in the asynchronous-communication with students, avoiding the synchronous teaching knowledge blocking state;thematic learning model allows students to achieve integration of information technology and disciplines in the unconscious, avoiding the teaching mode using rigid materials.But CSCL applications have also been some issues worth further consideration.

IMPROVE THE ABILITY OF TEACHERS' INFORMATION TECHNOLOGY APPLICATIONS

In CSCL 's entire teaching process, reasonable arrangements for teachers to master is not only the logical sequence of the teaching content and objectives, more important is the collaboration of student, student learning and collaborative process design rules. Teachers entering the CSCL environment and understand what it takes to become a powerful assistant students learn and adapt to the new environment.This requires teachers to have a rigorous pre-lesson instructional design,evaluation mechanisms,so that teachers become the first to integrate the disciplines of information technology and designer.Teachers have enough time to design classroom and extra-curricular collaborative learning. Seen in this light,while the Normal University college students' information should also pay attention to the students'ability of developing rigorous scholarship.

CONCLUSION

With the development of computer network technology and communication technology,computer-supported collaborative learning model under various learning will gradually become the dominant mode. In this mode of learning, how to be able to take full advantage of computer networks,will be applied to each subject teaching. To improve the efficiency of learners is a problem worthy of our study.We will continue to monitor developments in this area,and further depth to their teaching applications.

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