



## The teaching design and application of diversified open English educational resources in Open Distance Learning in China

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### ABSTRACT :

As the main content, the design quality of diversified Open English Educational Resources in Open Distance Learning will directly affect the learners' learning interest, learning motivation and learning validity. Its practical optimization design is the important way to arouse the distance learners' learning efficiency.

This article brought directly out of the CDIO Initiative. Based on the characteristics of the engineering, we analyzed and researched the computer English teaching architecture (Conceive); Designed the computer English learning content (Design), Used the diversified Open English Educational Resources in Open Distance Learning and the excellent global IC3 learning platform to teach (Implement), in support of E - learning English environment, we used the Blended - learning to improve computer English listening, speaking, reading, writing ability , in the same time, we can also guide the students to complete the study, testing, and computer skills (Operate).

Keywords: The diversified Open English Educational Resources, IC3 platform, The CDIO integrated computer English teaching mode, Blended-learning.

### 1. INTRODUCTION :

Under the background of globalization, single learning resources and mode cannot satisfy the needs of the students' active learning. Active learning requires learners to make full use of all kinds of ways to choose and decide the content according to learning aims. In a certain sense active learning ability reflects on the learner's ability to choose and make use of learning resources. As the main content, the design quality of diversified Open English Educational Resources in Open Distance Learning will directly affect the learners' learning interest, learning motivation and learning validity.

Its practical optimization design is the important way to arouse the distance learners' learning efficiency.

The 2011 Bernard M. Gordon Prize Recipient is awarded to Edward F. Crawley "for leadership, creativity, and energy in defining and guiding the CDIO (Conceive-Design-Implement-Operate) Initiative, which has been widely adopted internationally for engineering education." This article brought directly out of the CDIO Initiative. Based on the characteristics of the engineering, The CDIO integration computer English teaching mode adopted Blending Learning, and this method is fit for the Open Distance

Learning, to some extent, this kind of personalized, active learning method in computer English teaching and Learning are not limited by time and place, which develops the students' active learning. Blending Learning embodies the practicality, knowledge and interest of English teaching. The CDIO integration computer English teaching mode optimizes the learning resources, which can be divided into classroom English teaching resources, the second classroom English teaching resources; Use English on-line, off.-line English resources, etc.

We start out the practical optimization design of the CDIO integration computer English teaching and learning resources in Open Distance Learning. The English IC3 international standard operating system trains students' abilities to think and solve problems in English. The CDIO integration computer English teaching takes the computer application ability as the guidance is based on the actual needs and the frequency of computer application. We can learn, finish and test computer skills (Operate) under the English environment .We can also implement "teaching, learning, doing and practice," of the computer English.

## 2. OPTIMIZATION DESIGNS IN FOUR ASPECTS

### *A. Optimization design one*

The role of English teachers and students shifts, which embodied that controls the English learning Source. Selection and arrangement of English learning resources achieve the learner to decide the English content and progress actively. Blended learning is benefit for the CDIO integration computer English teaching and learning to arouse the enthusiasm of teachers and the student two aspects.

### *B. Optimization design two*

The English learners' learning methods and strategies are reflected in the selection and utilization of the English learning resources contents in Open Distance Learning.

### *C. Optimization design three*

All the learning goals, learning content, learning progress, learning methods, learning skills and learning effect evaluation are up to the usage of the English curriculum resources. In Open Distance English Learning. Creating CDIO integration computer English teaching environment should pay more attention to The diversified Open English Educational Resources.

### *D. Optimization design four*

In fact, the process of English learning is the process of using English curriculum resources in Open Distance English Learning. CDIO integration computer English curriculum resources is an important part of English computer learning resources.

## 3. THE CDIO INTEGRATION COMPUTER ENGLISH TEACHING AND LEARNING RESOURCES OPTIMIZE DESIGN EXPERIMENT IN OPEN DISTANCE EDUCATION.

Blended- learning promotes comprehensive utilization of all kinds of English teaching resources. We design the written materials, audio-visual teaching materials, and the CAI courseware and internet courses for "integration" teaching. The effective application of all the resources is in the teaching process and the formative assessment. The Main forms are alternative using and match using those resources. Guide the student to learn how to use teaching resources; giving full play to the advantages of the system, avoid duplication of effort.

### *A. Optimization design one*

Optimization study website: We select a few good teaching platforms to carry out the integration of CDIO integration computer English teaching. Such as the most advanced international IC3 certification exam platform.

IC<sup>3</sup>: Internet and Computing Core Certification

IC<sup>3</sup> teaching platform Website:

<https://certprep.certiport.com>

Wuhan city radio and Television University developed the English grammar listening exercises in courseware to realize the English listening teaching.

Website

: <http://www.whtvu.com.cn/dasai/yytl/index.htm>

Or <http://jpkc.whtvu.com.cn/yyf>

#### *B. Optimization design two*

The perfect teaching resources of CDIO integration computer English teaching and learning system, which includes the PowerPoint courseware Shared resource library, library reading, listening, self-study and self-test test database.

#### *C. Optimization design three*

In the CDIO integration computer English teaching and learning video audio playback area, there are some language points and wonderful interpretation about the textual structure, analysis and comments in computer English teaching and the operation by senior experts

#### *D. Optimization design four*

In addition the IC3 double remedial teaching is one of the distinctive features of bilingual teaching. In the course of study, if the question couldn't be answer correctly in the first time, the system can not provide remedial function. if twice the system will change into the English interpretation of the page. The students could understand the connotation of knowledge and ability. These processes also comply with educational psychology teaching rule. The students can master professional knowledge of computers and English at the same time .one may well say that kill two birds with one stone.

## 4. HOW TO REALIZE THE NEW CONSTRUCTION

In Open Distance Learning the CDIO integration computer English teaching and

learning mode must arouse learners' learning motivation and interest, help learners in the joyful mood. With the framework of the IC3 and blended – learning mode the CDIO integration in computer English teaching realized the computer knowledge + English listening+ English reading multimedia interaction teaching mode.

#### *A.Integration design goal*

In active learning, using the blended-learning to help students gain the initiative ability.

#### *B.Integration design steps*

- (1) Determining the CDIO integration computer English teaching content, clearing learning goals and requirements;
- (2) Choosing online learning path, finding and extracting learning information;
- (3) Finding out the problem, putting forward opinions, participating in real-time interactive discussion online or offline for non real-time feedback;
- (4) Brief summary of the CDIO integration of computer English learning gains.

#### *C.Integrated design scale detection*

Whether the learners are clear and understand to the basic concept, basic principle of the CDIO integration computer English teaching content and whether the learners have knowledge migration abilities. Students' cognitive development: the experimental group students realized that Shifting the traditional Learning thinking ways to the network and multimedia learning thinking ways. Measured by the scale, the experimental group students' intuitive thinking abilities improve efficiency by about 62.5% from control group participant's Operational capability development: the experimental group students' abilities of processing and conversion of online information improve efficiency by about 66% from control group participants.

Online interactive learning mode can improve students' association and imagination of information ability, the migration of knowledge and judgment. The IC3 teaching platform realized the computer knowledge + English listening + English reading + multimedia interactive perfectly. This kind of blended learning mode embodies the interactivity of the teaching. The two-way video, the man-machine dialogue and the network interactive methods allow operators to audio input or operate through the keyboard mouse for human interaction. Obviously, those methods improve the students' learning efficiency.

#### 5. THE SECOND CLASSROOM ENGLISH TEACHING RESOURCES OPTIMIZATION DESIGN FOR THE CDIO INTEGRATION COMPUTER ENGLISH TEACHING AND LEARNING IN OPEN DISTANCE LEARNING.

##### *A. Optimization design one*

We can periodically hold a series of English literature and art activities for the students, such as: competition of English newsletter constructs, English speech contest, English singing competition, English imitation contest, talk show, English culture week and English corner activity in relatively fixed place at school, such as library, playground, cafeteria, teaching building. We should take the student-oriented, appointed English teacher as on-site guidance. It's best to ask foreign teachers, higher language level, foreign students and graduate student of English major students to participate in those activities. To encourage students to speak in English corner, guides them to expand topics of common interest. English corner is the extension of classroom teaching. English corner has very important significance to cultivate the student's abilities.

##### *B. Optimization design two*

Encourage learners to use mass media to

improve English learning abilities. Selected excellent English films such as "the big bang theory", "Titanic", "Waterloo Bridge", "gone with the wind", "pride and prejudice" and so on. All the films with subtitles in both Chinese and English, students can easily edit, capture and replay, etc. These films teaching resources integrating language, images, sound, place the student in a foreign language environment, experience and study language and culture, part of lexical phrases and musical lyrics in the film.

##### *C. Optimizations design three*

Introduce the excellent English learning website Link such as [www.econ-omist.com](http://www.econ-omist.com) and [www.news.com](http://www.news.com)

English newspaper and magazine website: <http://www.readersdigest.com> (reader's digest),

<http://www.englishdigest.com>

English learning website is: <http://www.hi2ez.com.tw> (English learning network), etc., let the students choose to study by themselves.

#### 6. OPTIMIZATION DESIGN LEARNING ONLINE RESOURCE FOR THE CDIO INTEGRATION COMPUTER ENGLISH TEACHING IN DISTANCE EDUCATION

Using the diversified Open English Educational Resources in Open Distance Learning and the excellent global IC3 learning platform to teach (Implement), in support of E - learning English environment, we used the Blended - learning to improve computer English listening, speaking, reading, writing ability, at the same time, we can also guide the students to complete the study, testing, and computer skills (Operate).

##### *A. Optimization design one*

Using IC<sup>3</sup> teaching platform Online which forms of UNESCO subordinates global digital literacy committee organization experts from global 22 countries.

The experts formulated the IC<sup>3</sup> certification standards. IC<sup>3</sup> teaching platform explains the teaching content and evaluates the students' level in English. Enable our students to familiar with the English operating system successfully and participated in the various certification at home and abroad to obtain qualification certificates.

#### *B. Optimization design two*

Make full use of network resources to improve the students' listening level. Change the traditional English listening teaching method, take advantage of the network online listening services, such as developed small English grammar listening courseware.

(<http://jpkc.whtvu.com.cn/yyyyf>).

Interactive English listening express ([www.listeningexpress.net](http://www.listeningexpress.net))

and ([www.liveabc.com](http://www.liveabc.com)). According to students' actual level, the teacher can make hierarchical training to stimulate students' English learning interest step by step.

#### *C. Optimization design three*

Training oral English skills using online chat function.

Oral English opportunities in class is limited, We offer students some high quality English chat sites at home and abroad, using written English with teacher first, then guide them chat to the net friend, voice dialogue can be used. The Easy way of chat eliminates the students' anxiety, fear, shy. Through the chat, students can also learn national English cultural background and learn authentic English.

#### *D. Optimization design four*

Make full Use of network information resources to improve the English reading level. In line with the scientific nature, diversity and interesting combination principle of network resources, guide the students to read. Through the campus network course, students can read a large number of the original English materials directly, such as the American reader's

digest nets ([www.rd.com](http://www.rd.com)), weekly English learning ([www.path2english.com](http://www.path2english.com)), to cultivate the habit of thinking in English. These rich language learning resources expand the student view; broaden the content of teaching materials.

#### *E. Optimization design five*

Make full Use of network resources, improve the English writing level. English writing is a weak link for students. Students can chat in English text or send email in English in the network to improve English writing abilities. Teachers can also guide students on some English writing training site, such as English writing web ([www.4fwriting.com](http://www.4fwriting.com)), the online writing lab ([owl.english.purdue.edu](http://owl.english.purdue.edu)), the expo English ([www.360abc.com](http://www.360abc.com)), training to write different style of the article, improve the level of writing.

### 7. OPTIMIZATION DESIGN LEARNING OFFLINE RESOURCE FOR THE CDIO INTEGRATION COMPUTER ENGLISH TEACHING IN DISTANCE EDUCATION

OER are beneficial as these help in reducing cost of material production and increases access to content (Thakran & Sharma, 2016).

#### *A. Optimization design one*

Make full use of campus radio resource. Combine the campus English radio and FM, use FM or audio broadcast to Broadcast English daily conversation, interesting English, short stories, English songs, movie clips, and news in students' break time. Students can choose to listen to those resources.

#### *B. Optimization design two*

Offline mobile learning. Make full use of net school free software such as word games to help the students use diversity intelligent terminals, such as smart phones, iPod, etc to download all kinds of English learning vocabulary to use in the offline state Vocabulary learning. Link url: [http://cichang.hujiang.com/?source=360\\_word](http://cichang.hujiang.com/?source=360_word)



*C. Optimization design three*

Download listening, speaking and reading contents online and stored in a mobile phone, pad and other mobile terminal. Download paid English novels: electronic English book through the campus network. Offline learning can be realized at anytime, anywhere without limit.

8. CONCLUSION

The diversified Open English Educational Resources in Open Distance Learning and the establishment of excellent international IC3 computer certification learning platform optimize the transfer cost of the students' learning plans and learning outcomes. Except the Tutors' face-to-face teaching, the CDIO integrated computer English teaching mode also implements a variety of network technologies (such as: real-time virtual classroom, the pacing learning, and collaborative learning, streaming video, audio and text). Under the teachers' design guidance, Students can realize autonomous online learning in the semi separate state of students from their teachers.

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