

# The Teaching Practice of Information Literacy Curriculum in Ubiquitous Knowledge Environment

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## **Abstract:**

*Ubiquitous knowledge environment has a far-reaching effect on students' information literacy. Information literacy curriculum teaching will adapt to new conditions by reforming. This paper discusses the counter-measure and practice measure of information literacy curriculum in ubiquitous knowledge environment.*

**Key words:** ubiquitous knowledge environment; Information literacy curriculum; teaching practice; information retrieval

## **1. Introduction**

With the rapid development of sensing technology, computer technology and communication technology, the era of ubiquitous has secretly come to. Ubiquitous refers to omnipresent and universal existence, ubiquitous knowledge environment is omnipresent knowledge environment[1].In this instance, any user can obtain the required knowledge at any time and any place through any network, acquiring knowledge becomes easier, education and scientific research will inevitably affected in the future. Information literacy curriculum is also influenced by it, so the teaching of information literacy curriculum should be reformed in order to adapt to the new environment.

## **2. The influence of Ubiquitous Knowledge Environment on students' information literacy**

### **2.1 Network of information acquirement and communication**

Under the ubiquitous knowledge environment, because the ubiquity of information resources and information equipment, the convenience of network, and the large number of information content, college students acquire knowledge becomes easier and easier. And obtaining information through the internet is more free and more convenient than through the physical library, therefore university students always choose internet, the frequency that students go to the library is getting lower and lower, even emerging "demise of library"[2]. Instant communication tools, such as text message, QQ, WeChat, blog and dynamic maintenance of personal space, they can help people to communicate, send directly the retrieval interface screen shots, demonstrate retrieval operation process by the remote control of the other side of the computer, so they can solve some actual problem at real time. Absolutely, student can choose internet because of its many advantages.

### **2.2 Information consciousness and retrieval skill have been improved**

In the information era, students engage in social activities everyday, meanwhile they need all kinds of information, the information activities consequent on this situation have become more abundant and frequent. Information retrieval already turn into a kind behavior, which is unconscious and self-conscious, students' search behavior is ubiquitous. For a new generation of students, who is growing up with internet, they are proficient in operating the basic function of the electronic equipment, such as mobile phone and computer. They are consciously take out a mobile phone record at any time for problems encountered, then students use the search engine to find its solution. Such as network ordering, hotel reservation, buy tickets, look up new words, traffic, weather, currency conversion, recruit students, recruit and so on. They also get the above information, but also use database very easily.

### **2.3 The requirement of information is more diversified and more sample**

Due to the implementation of the retrieval behavior happened at any time in any place, it's involve with a lot of tools and resources, so students' the requirement of information is more diversified and more sample. In particular, because of the similar document push technology and desktop intelligent push technology, as long as the students open a page, they can find some of the knowledge that they don't understand. And the through hyperlinks, you can know more knowledge and find more knowledge that you don't understand. As Einstein's famous saying, as our circle of knowledge expands, so does the circumference of darkness surrounding it. Thus, the more you know, the more you don't know, people's demand for information is growing geometrically.

### **2.4 Blindness of information cognition**

Although the information consciousness and the retrieval technique of students are improved, they are generally blind for understanding of some important information. For example, they often solve the problems by using search engines, because of the lack of understanding of profession database. As a result of lack social experience and knowledge, they can't accurately assess outdated information, span and fraud. Some bad Internet behavior is emerging, such as game addiction, chatting becomes a fashion, watching

television without limit, browsing bad information. Indeed, someone has autism of Internet and electronic product dependence syndrome, and that they ignore professional learning because of a large number of superficial reading. "This year, the been destroyed life by WeChat" [3] illustrates the above problems.

### **3. Teacher's teaching practice strategy**

Ubiquitous knowledge environment has changed the way of students' information acquisition, information demand, information exchange, information recognition and so on. This has caused the information retrieval object, retrieval strategy, information literacy training requirement, such as a series of changes. It provides opportunities and challenges for the development of the information literacy curriculum, driving the course to keep moving forward.

#### **3.1 A review on teaching objectives, teaching task and teaching emphasis of Information Literacy Curriculum**

The information literacy of students is summed up in two aspects: the ability about use and see. "See" means to retrieval the needed information, "use" is to solve practical problems by using information. Traditional teaching think that "see" is more important than "use". Now upside down, teaching think that "use" is more important than "see", this is the information literacy curriculum's teaching objectives in the ubiquitous knowledge environment. Task includes the instruction of book basic knowledge of intelligence and retrieval skills, besides the cultivation of information consciousness, information management, information analysis, information identification, information ethics, information application, information regeneration ability and lifelong learning ability. Teaching focus should from the literature retrieval and acquisition transfer to the analysis, evaluation and selection of literacy information, to based on the citation of academic influence evaluation, to based on the research trend of literature development ,Huang Ruhua, who is professor of department of information management in Wuhan University ,think that with the realization of ubiquitous knowledge environment ,teaching retrieval skills is not the task of Information Retrieval Course, but information management, information analysis, knowledge discovery and innovation. These are the users of the most confused, the most concerned about [4]. This is consistent with the view of this article.

#### **3.2 Strategic planning for the Information Literacy Curriculum**

Compared to other courses, this course has not been fully developed. It's concept of unity, the completeness of the system, the advance of the technology and so on need to be raised. Primary schools, middle schools, universities have adopted this course, but it's exist the phenomenon of content disconnection .Ubiquitous knowledge environment has a great influence on information literacy curriculum. This need to stand in the background of a high degree to survey the curriculum educational objectives, to survey the relationship with other subjects, to see the advantages and disadvantaged of the development environment ,to carry out long-term overall planning, to make effective measures ,and to promote their positive and healthy development.

### **3.3 Resource construction of information literacy curriculum**

A perfect course not only needs teaching materials, but also needs teaching reference books ,which include accessory teaching plan, exercises and so in, and books for reading after class. From the Amazon and the Chinese Library Collection fatality survey shows that there is a certain amount of relevant teaching materials, but the relevant teaching plan, teaching reference books ,exercises and reading is almost zero, that are very scarce. Ubiquitous computing and ubiquitous network furnishes a good platform for knowledge exchange with the course's teaching and learning. The contents of the platform include the knowledge background of classroom teaching, the relevant exercises, the practical requirement, the introduction if resources, course ware, and outstanding student work demonstration, etc. The class hour of information retrieval course is generally not enough. Using this platform, you can make students fully understand what they are learning, complement the classroom knowledge, let it become the second classroom. At present, it's still in the early stage of construction, due to lack of time and energy, the platform resources in also very scarce.

### **3.4 Choose collective lesson preparation**

In recent years, new technology, new resources and new equipment have been developing rapidly, let people have no way to adapt. Especially for teachers who have not received a specialty education, it is quite difficult to adapt it. It is said that two heads are better than one ,we gather together ,to share fine resources ,to teach each other new technologies ,to recommend new equipment ,to discuss teaching methods, to develop scientific teaching plans, to form an accurate teaching concept. By collective lesson preparation, we can adopt all kinds of good qualities, pool the wisdom of the masses ,then adapt to this rapidly changing information environment with a relaxed and happy mood.

### **3.5 Design teaching and optimize classroom teaching with pertinence**

Information literacy curriculum is a method course to cultivate students' ability. So we should take the students as the center, pay attention to the learning process, measure teaching to students. Such as the flipped classroom which is fashionable all over the world, problem based learning, subject teaching method, case teaching method. But at the same time, there are one point which needs to pay attention that teachers should choose various teaching methods flexibly. Because, for example, the flipped classroom take the way of studying after class and communicating in class, according to the study, students actually spend more time. Indeed, this increases the burden on students, the students will be bored for a long time, and they, who is poor awareness, are still difficult to mange and to control.

### **3.6 Strengthen the communication with the outside world, promote the development of curriculum**

Ubiquitous knowledge environment is open and cooperative, teachers can not rest on its laurels, should go out and communication with the outside world extensively, gather information extensively, expand the basic knowledge of curriculum, technology, idea, thus promote the development of curriculum. Firstly, teachers should take Information literacy Curriculum in other courses, combined with the needs of the professional course to design[5],in this way they can more to mobilize the enthusiasm of students learning; communicate with data provider can understand the original intention of the database construction, process,

characteristic, but also express the using feeling and suggestions for improvement collected from students, in this way both to help teachers to understand the database, but also to promote the continuous improvement of the database.

#### 4. Conclusion

In the ubiquitous knowledge environment, more and more information literacy requirements for students, Information literacy Curriculum bears that more and more responsibility, but this environment also provides more resources and technology, which are impossible realize in the past, and now might realize, bring more and more flexible teaching methods, to provide a platform for teachers to develop. As the teachers of Information literacy Curriculum should seize the opportunity, the bold exploration, have the courage to practice, change the inherent teaching concept and teaching methods, improve the teaching content and teaching means continuously, complete the teaching goal with good quality ,let the course of information retrieval to cultivate students' ability actually.

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