

# Exploring the Path of Ecological Civilization Education in Local Colleges and Universities

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**Abstract:** With the in-depth development of ecological civilization construction, ecological civilization education in colleges and universities has new requirements. As the main position of ecological civilization education for college students, local colleges and universities are of great significance to explore the path of ecological civilization education. This paper empirically examined 2459 questionnaires from Guangxi University of Science and Technology. There is no significant correlation between college students' knowledge of ecological civilization and ecological behavior, and the situation of ecological civilization education is positively related with ecological behavior. The conclusion shows that local colleges and universities can promote the improvement of ecological civilization education level by doing good top-level system construction, building ecological civilization teaching system and paying attention to the influence of situational factors.

**Keywords:** Local universities; Ecological civilization education; Path

Ecological civilization is a new stage and form in the development of human civilization and a new realm for man to get along with nature. Since the 18th Party Congress, the construction of ecological civilization in China has become an important part of the modernization of socialism with Chinese characteristics. The Party and the government have successively put forward a series of strategic guidelines for the construction of ecological civilization and green development and carried out the construction of the ecological civilization system with great success.<sup>[1]</sup> The construction of ecological civilization has been integrated into all aspects of economy, politics, culture, and society. The construction of the ecological civilization system has also put forward new requirements for ecological civilization education in colleges and universities. There are many problems in ecological civilization education in local colleges and universities in China, especially in Guangxi colleges and universities, and there are few kinds of research about ecological civilization education in Guangxi colleges and universities. Taking Guangxi University of Science and Technology as an example, this paper makes a preliminary investigation on the current situation of ecological civilization education in colleges and universities and tries to explore the effective path of ecological civilization education in local colleges and universities.

## 1. The basic situation of the survey

The questionnaire was used to investigate 2459 questionnaires, among the students surveyed, 1006 were male and 1453 were female, the ratio of male to female was basically balanced and in line with the actual male to female ratio of the school.

There are 629 students in the first year of undergraduate, accounting for 25.6%, 343 students in the second year of undergraduate, accounting for 14%, 291 students in the third year of undergraduate, accounting for 11.9%, 349 students in the fourth year of undergraduate, accounting for 14.2%, 40 students in the fifth year of undergraduate, accounting for 1.6%, 396 students in the first year of specialist, accounting for 16.1%, 385 students in the second year of specialist, accounting for 15.7%, and 26 students in the third year of specialist, accounting for 1.1%.

A total of more than 60 majors are involved, including new media technology, sports rehabilitation, biological engineering, visual communication design, English, applied statistics, civil engineering, social sports guidance and management, new media technology, visual communication design, communication engineering, logistics management, etc.

## 2. Analysis of the results of the survey

### 2.1 Degree of college students' understanding of ecological civilization

The degree of college students' understanding of ecological civilization is mainly measured from two perspectives: college students' understanding of the importance of ecological civilization construction and the ways to understand it. By analyzing the questionnaire, the group draws the following statistical chart.

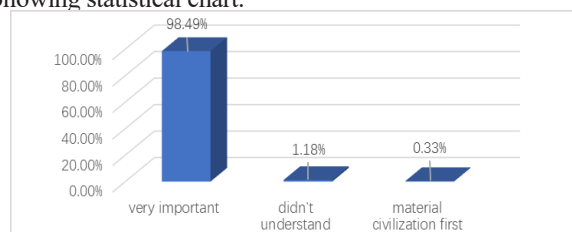


Figure 1: College Students' understanding of the importance of ecological civilization construction

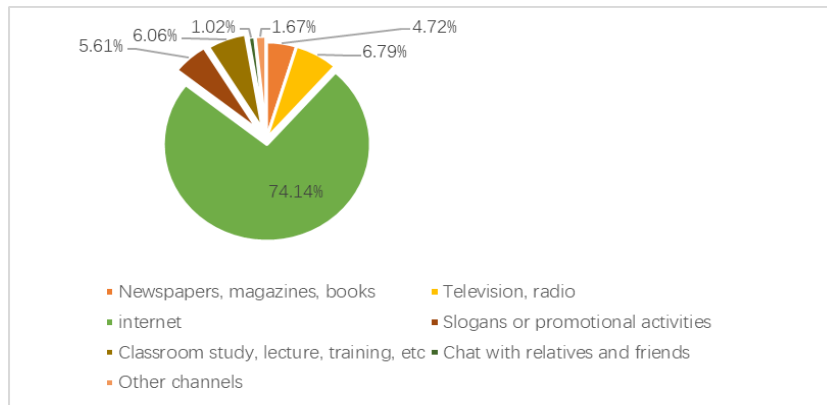


Figure 2: Ways for college students to understand the knowledge of ecological civilization

From the figure, we can clearly see that 98.49% of the respondents have knowledge about the importance of ecological civilization construction, which means that college students have knowledge about ecological civilization construction. Among the most important channels to learn about the knowledge and information related to ecological civilization, the Internet becomes the most important way, followed by TV and radio, while college students learn about ecological civilization knowledge through friends, relatives, chatting with friends, and other channels relatively less than others. As the most frequently used communication channel at present, the Internet can help college students understand ecological civilization knowledge in many aspects and angles. However, the information on the Internet is complicated, there are correct and wrong, positive and negative, plus the lack of discernment ability of college students, information such as “pollution first and then treatment” and “develop material civilization first at present” will have a negative influence on their thoughts and behaviors. Negative influence. Therefore, in order to make college students receive systematic ecological civilization education, schools should take the main responsibility of ecological civilization education and conduct research on ecological civilization education methods.

## 2.2 The more ecological education you receive, the more willing you are to receive education

At present, the education of local colleges and universities is mainly based on “five educations”, and there is a certain lag in ecological civilization education. The managers of colleges and universities lack the concept of educating people in ecological civilization construction and pay little attention to ecological civilization education. The more students receive ecological civilization education, the more they know about ecological civilization construction and the stronger their subjective willingness to receive ecological civilization education.

Table 1: cross-tabulation of College Students’ subjective willingness to receive education and education level

		Subjective willingness to receive education		
		Strong willingness to receive education	Willing to receive education	General will
Systematic education	Have received systematic education	0.80	0.18	0.02
	Received some systematic education	0.58	0.40	0.03
	Received sporadic Education	0.40	0.49	0.11
	No education	0.41	0.38	0.21

Through Table 1 we find that with the more systematic education received, the stronger the subjective willingness to receive education, indicating that college students are receptive and have a wide range of interests, and as long as they are given systematic education, their interest in ecological civilization will increase and they will be willing to receive an education. From Table 2, it can be seen that the stronger the willingness of college students to receive ecological civilization education, the stronger the action of active participation in ecological civilization education. In contrast, students who are less willing to participate in ecological civilization education are much weaker in their actions to participate in education.

Table 2: cross tabulation of College Students’ subjective willingness to receive education and initiative to receive education

		Participation in ecological civilization			
		Take the initiative to participate in activities or learn about the ecological civilization	Occasionally participate in activities or learn about the ecological civilization	incapable	unclear
Willingness to accept ecological civilization education	be willing	0.58	0.39	0.01	0.02
	Basic willingness	0.23	0.69	0.03	0.05
	commonly	0.13	0.59	0.14	0.14

## 2.3 Factors influencing ecological civilization education

In addition to soliciting basic information about the interviewees such as gender, education level, and major, this study set up 20 questions to measure ecological civilization education in terms of three influencing factors: the situation of ecological civilization education, the mastery of ecological civilization knowledge, and ecological civilization behavior. The five questions reflected the interviewees' ecological civilization education in terms of their satisfaction with the current campus ecological environment, their acceptance of ecological civilization education, their willingness to accept ecological civilization education, their satisfaction with ecological civilization education at school, and their active acceptance of ecological civilization education; the interviewees' knowledge of ecological civilization was reflected in terms of the relationship between humans and nature, the ecological environment, the connotation of ecological civilization and the importance of ecological document construction. The interviewees' mastery of ecological civilization is reflected in three aspects: consumption habits, personal environmental awareness, and public activities.

### **2.3.1 Reliability test of data**

Reliability refers to the degree of consistency or stability of measurement results. The reliability analysis method is mainly used to measure and test the reliability and stability of research scales. We used the Alpha reliability coefficient method. The reliability of the 15-factor options was tested using R software. If the reliability coefficient of the total scale is greater than or equal to 0.8, the reliability is considered high; if the coefficient is between 0.7 and 0.8, the reliability is considered acceptable; if the coefficient is less than 0.7, it is necessary to consider reformulating the questionnaire. The analysis results showed a reliability coefficient of 0.75, and the reliability of this survey design was between 0.7 and 0.8, with acceptable measurement results. The survey has good stability, usability, and credibility.

### **2.3.2 The situation of ecological civilization education**

The survey shows that college students are satisfied with ecological civilization education on campus, 79% are basically satisfied. 51.2% have a strong desire to learn. 39.98% will actively participate in receiving ecological civilization education, which shows that college students have a good willingness and degree of acceptance of ecological civilization education.

### **2.3.3 Mastery of ecological civilization knowledge**

96.1% of the respondents think that ecological and environmental protection awareness is important to the whole society, 92.23% of the respondents have correct views on the construction of ecological civilization, and 89.14% of the respondents can correctly grasp the importance of ecological civilization construction.

### **2.3.4 Ecological civilization behavior**

The survey shows that most students will pay attention to energy conservation and environmental protection in their daily lives. For example, 34.12% of students would consider the environment and choose high-priced but environmentally friendly energy-saving products, and 51.85% of students would be aware of the serious pollution to the environment when using disposable plastic cups or plastic bags. However, there are also 13.67% of students who would not consider buying energy-saving products, and 7.6% of students do not think that using plastic bags will pollute the environment, which reflects that the current environmental behavior of college students still needs to be guided, and many of them are aware of environmental protection, but in some cases ignore the impact of their own behavior on the environment.

We use Excel software to analyze the data, and the results show that the correlation coefficient between ecological civilization education and ecological behavior is 0.31, which is positively correlated. It can be seen that colleges and universities can optimize their ecological behavior by influencing students' attitudes towards ecological civilization education. At the same time, the results show that there is no significant correlation between College Students' ecological civilization knowledge and environmental behavior, which is similar to the results of many foreign scholars.<sup>[2]</sup>

## **3. Research on the path of ecological civilization education in local colleges and Universities**

### **3.1 Do a good job in the construction of top-level system and improve the awareness of ecological civilization education**

Facing the new opportunities and challenges of ecological civilization education, Chinese universities should have a sense of responsibility, mission, and urgency.<sup>[3]</sup> However, in the education system of local colleges and universities, ecological civilization education has not been effectively paid attention to, and colleges and universities are more focused on discipline and professional education. From the research results, we can see that increasing the attention on ecological civilization education can promote ecological civilization education and improve students' concept of ecological civilization. As the main body of ecological civilization education for college students, local colleges and universities should pay more attention to the construction of ecological civilization and take the initiative to undertake the important task of ecological civilization education for college students. We should strengthen policy guidance and do a good job in top-level design. Integrate ecological civilization education into the comprehensive reform of schools and the process of "moral, intellectual, physical, artistic and labor" education. At the same time, schools should also increase human, financial, and material investment in ecological civilization education, constantly improve ecological civilization education from the aspects of ecological values resource mining, system construction guarantee, and ecological science and technology innovation activities, guide teachers to actively participate in ecological civilization education, and promote the popularization of ecological civilization education in colleges and universities. In addition, colleges and universities should always carry out the task of ecological civilization construction in all their work, encourage all departments of the school to enhance the awareness of ecological civilization, and increase the construction of school environmental beautification, so as to affect the awareness of ecological civilization of teachers and students.

### **3.2 Create an ecological civilization teaching system and optimize ecological civilization behavior**

The teaching system includes teachers, teaching content, curriculum form, and so on. The survey shows that the situation of

ecological civilization education is positively correlated with ecological behavior. Therefore, local colleges and universities should establish and improve the ecological civilization teaching system to make the development of ecological civilization education routine, systematic, and long-term. First of all, we should improve the ecological quality of teachers. Teachers are educators of students' ecological literacy, and their own ecological awareness is the key to students' ecological civilization literacy. Improve teachers' ecological civilization literacy, transmit the concept of ecological civilization to students through teachers' daily words and deeds, and promote students to develop conscious ecological and environmental protection behavior in daily life. Secondly, we should do a good job in ecological theory education. Classroom teaching is the main way for college students to obtain systematic ecological civilization education. Colleges and universities should set up corresponding compulsory courses, set different environmental education programs for professional and non-professional students, and use theoretical classroom teaching to promote college students to master the theoretical knowledge of ecological civilization. Thirdly, we should strengthen the construction of the second classroom. According to the survey, 57.5% of students choose the teaching method of combining theory with practice to carry out ecological civilization education, which shows that they are more willing to participate in the corresponding practice to practice the concept of ecological civilization after learning the theory. Colleges and universities should set up more courses on ecological civilization in the second classroom, build college students' environmental protection associations, deepen the dissemination of ecological civilization knowledge and enhance the awareness of ecological civilization through peer learning and exchange. Colleges and universities should strengthen cooperation and exchanges with governments, enterprises, and non-governmental environmental protection institutions, and create opportunities to help college students spontaneously participate in various environmental protection community activities.<sup>[4]</sup>

### **3.3 Pay attention to situational factors, carry out ecological civilization education and improve ecological civilization literacy**

The survey shows that compared with carrying out ecological civilization education courses and participating in ecological environmental protection community organizations, 17.89% of college students believe that strengthening the supervision, reward, and punishment of campus ecological environmental protection, and 18.58% of students believe that through various forms of publicity and education, 22.45% of students believe that through a good humanistic environment and ecological environment, it is more effective to improve students' awareness of ecological civilization and practical ability. Therefore, first, colleges and universities should pay attention to the construction of a "green campus", incorporate the construction of campus landscape into the overall planning of school ecological civilization education, and create a cultural punch point to publicize ecological values from the perspective of ecological aesthetics, reasonably plan the mountains, lakes, trees and grass in the campus, build green ecological roads, squares, roads, gardens, courtyards and other landscapes, and create a good green campus atmosphere. The second is to strengthen the publicity and education of ecological civilization construction. In addition to publicizing and reporting the knowledge of ecological civilization through the official media of the school, such as the website, campus radio, official WeChat, and microblog school, teachers should also be guided to practice and set a good example. In scientific research work, we should actively explore the ecological transformation of scientific and technological innovation. In life, try to live in a green way.

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