

# Research on the Application of heuristic Teaching in Electronic Information Engineering Teaching in higher Vocational Education

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**key words:** Heuristic Teaching; ideological and political course in Colleges and Universities; Teaching method

**Abstract:** The subject of electronic information engineering is to study the processing of information technology to electronic information. In the electronic information project, information technology is involved, and it also involves the knowledge of communication technology and so on. Therefore, it can be said that the knowledge surface covered in the electronic information engineering is very wide, and the electronic information engineering plays an important role in the national economy and people's life, and it is necessary to attract the attention of the students to learn the electronic information engineering well. The interest of the students is stimulated, and the teaching efficiency of the electronic information engineering can be greatly improved after the learning interest of the students is excited. the colleges and universities should also This paper studies the application of heuristic teaching in the teaching of electronic information engineering in higher vocational education.

## 1. Heuristic teaching method

### 1.1 The implication of heuristic Teaching method

In the course of teaching, the teacher, based on the teaching goal set in advance, based on the student's learning situation, uses the rich and diversified teaching method to inspire the students, to exercise the students' logical thinking ability and the self-learning ability, to stimulate the students' learning interest and knowledge desire, It is the heuristic teaching.

### 1.2 The characteristics and significance of heuristic Teaching method

If teachers want to apply heuristic teaching method to teaching, then first of all, they should have a basic understanding of students' learning ability and learning situation, and analyze students' learning situation, find the most effective way to stimulate students' desire for knowledge, give students more space to show themselves, so that students can get the training of thinking logic ability and expression ability in class. At the same time, teachers should also guide students to think about the problem independently, and strengthen the mastery of knowledge. Heuristic teaching method is a completely student-oriented teaching method, which really takes students as the center of teaching, and the teacher exists as the guide of students and teaching. In 2005, students no longer need to passively accept teachers' knowledge indoctrination, but to explore knowledge more actively and independently. Because of the continuous development of society, the application of heuristic teaching method in teaching will be gradually popularized, and in this process, heuristic teaching method has promoted the reform and development of education and teaching, and the role of heuristic teaching method in the future learning and development of students is also improving.

### 1.3 Application of heuristic Teaching method in Electronic Information Engineering Teaching

The application of the heuristic teaching method in the teaching of electronic information engineering requires that the teacher really understand the heuristic teaching method, and only the teachers who really understand the heuristic teaching method can reflect the effect of the heuristic teaching method. The application effect of the heuristic teaching method depends on the application of the teacher and the cooperation of the students, and if the student's degree of cooperation is high, the application effect of the heuristic teaching method is more ideal, but if the students do not match, the application effect of the heuristic teaching method is not ideal.

**2. The content of heuristic Teaching**

<b>The content of heuristic Teaching</b>		
Arouse students' interest and enthusiasm in learning	Guide students to think on their own	Increase practical course content
In the course of the classroom teaching activity, the teacher can give a few examples of practical life, close the distance between the students and the content of the class, and can effectively stimulate the students' interest, and the students will study the class knowledge seriously.	In the teaching of electronic information engineering, teachers should pay attention to guiding students' independent thinking ability, which can make students redo their wrong problems, let students rethink the wrong problems, find problems and solve them.	The increase of practice activity, through the observation of the phenomenon in the course of the experiment, the thinking of the problem, etc., can effectively train the students' innovative ability, the ability to solve the problem and so on.

**2.1 Arouse students' interest and enthusiasm in learning**

In order to make the teaching activity more successful, the teacher should first challenge the students' interest in learning, arouse the students' learning enthusiasm, and make the students integrate into the classroom teaching, and the teacher also needs to use a certain teaching means to create the teaching scene. So that the students can be integrated into the teaching scene, and the teaching content can be explored according to the guidance of the teachers. At the same time, the teacher can use the case to help the students to understand the teaching content, and meanwhile, the case-based teaching method can lead the students to more focus on the distance between the students and the classroom. After a student has a learning interest, the student will take the initiative to study.

**2.2 Guide students to think on their own**

In the process of students' learning activities, what is needed is not only the guidance of teachers, but also the efforts of students themselves, because students are the main body of learning, only students are willing to study hard, students' learning efficiency can be improved, and teachers should also be clear about this, respect the subject status of students, and give full play to the main role of students. In the teaching of electronic information engineering, teachers should also strengthen the exercise of students' autonomous learning and independent thinking ability, so that students can explore knowledge independently even without the help of teachers. Teachers should also let students form the habit of reflection, only learn to learn. Reflecting on it, it is possible for students to find their own problems and make up for and improve their own problems. After entering the society, students will face fierce social competition. In order to improve the employment competitiveness of students, it is also necessary to improve students' autonomous learning ability, which is very key to students' future learning and development.

**2.3 Increase practical course content**

Teachers should add more practical course contents to electronic information engineering, because these courses can improve students' practical operation ability, and the subject of electronic information engineering has certain requirements for students' operation ability. if students only master the theoretical knowledge of electronic information engineering, they can not meet the needs of the society for talents majoring in electronic information engineering. Only those compound talents who not only master certain theoretical knowledge of electronic information engineering, but also have certain practical ability of electronic information engineering can meet the needs of

enterprises. And in the process of improving students' practical ability, they can also improve their solution. The ability to solve problems and the ability to analyze problems, and if teachers want to observe students' learning situation more clearly, they can be divided into several groups, each group has a fixed learning theme, the group members will help each other, actively explore and complete learning tasks, and in this process, teachers can see students' learning advantages and learning weaknesses, but can also help students to cultivate a sense of cooperation. Teachers should also carry out more practical activities, and students' innovative ability and problem-solving ability can be increased in practical activities. In the teaching of electronic information engineering, teachers should also take students as the main body. Help students point out problems and correct them.

### **3.Conclusion:**

In the teaching of electronic information engineering, the application of heuristic teaching can stimulate students' enthusiasm for learning, because heuristic teaching can arouse students' desire to seek knowledge and let students rise their desire to explore knowledge. at the same time, heuristic teaching can also help students to exercise their thinking logic ability and form the habit of students thinking independently. However, the application of heuristic teaching is also required for teachers. Teachers must have the ability to enlighten students, at the same time, students must cooperate with teachers' teaching behavior, in order to give full play to the role of heuristic teaching. Generally speaking, the application of electronic information engineering course teaching in heuristic teaching method , can enhance the teaching efficiency, also can train the student's innovation ability, provides more electronic information engineering professionals with the innovation ability for the society.

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