

Research on Teaching Methods of Automotive Engineering English in Application-oriented Universities

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Abstract. In order to improve the teaching effect of Automotive Engineering English in the automotive engineering services major of application-oriented universities. The features of automotive engineering English and automobile services engineering major of application-oriented universities are analyzed. The modular teaching methods is proposed based on the above characteristics and several suggestions are proposed to improve the teaching effect.

Keywords: application-oriented undergraduate universities; automotive engineering English; automobile engineering English; teaching effect.

1. Introduction

With the rapid development of industrialization and information technology, the automobile industry has become an important power for economic growth [1]. In order to support the rapid development of the automobile industry, many application-oriented universities have set up automotive service engineering majors which is a highly applied specialty, stress on practice teaching, strengthening the training of applied talents [2]. At present, China has become a big automobile production and marketing country, automobile aftermarket has become the largest part of the automobile industry chain. Such a huge car aftermarket, need a large number of knowledgeable and skilled automotive service professionals. Especially for students' ability of automotive engineering English which can expand the vision of students and improve their English ability [3]. However, due to the old teaching mode and tedious teaching method, the teaching effect is weak for a long time. Based on the characteristics of automobile service engineering major in application-oriented undergraduate universities and the requirements of automotive engineering English courses, the modular teaching methods is proposed and several suggestions are proposed.

2. Characteristics of Automobile Service Engineering Major in Application-oriented Undergraduate Universities

The application-oriented undergraduate universities need to develop social needs students that have a solid theoretical foundation and the necessary ability of knowledge application [4]. Automotive service engineering is an applied major which cultivated students' professional theories and the practical ability to apply knowledge and technology in production, service, management, and so on. In the classroom teaching, the students not only obtained the theoretical knowledge but also the practical skills. Therefore, the teaching of automotive engineering English should emphasizes the combination of theory and practice. The employment satisfaction and success rate of graduates are important indexes to measure the quality of schools. Accordingly, the major of automobile service engineering in application-oriented universities should attach importance to employment, and divide the whole teaching content into several teaching modules according to the law of teaching cognition and employment demand. The orientation of application-oriented undergraduate universities is to cultivate application-oriented talents needed by the society. Therefore, develop students' good professional skills and habits through various teaching methods and enable students to adapt to the development of the economy and society is necessary. In order to improve student practical ability and realize the combination of teaching and production practice, enterprises are used as off-campus

practice bases for students. Through engineering ability training, students can systematically master the structure, principle, testing and maintenance theories of modern automobiles, and master the operation skills of automobile fault diagnosis and maintenance. Furthermore, students also can improve their theoretical knowledge level of modern automobile technology, grasp the development of new automobile technology, and enhance skills in automobile fault diagnosis, maintenance and innovation ability by the enterprise technical training.

3. Features of Automotive Engineering English

Automotive engineering English is a special purpose English based on public college English and automobile related professional knowledge [5]. Especially for the students of automobile service engineering, to learn automotive engineering English well, they must have solid fundamental of Basic English. Automobile engineering English is different from public college English. Vocabularies of public college English, in most cases, will appear polysemy, while in automotive engineering English they are relatively fixed. There are many professional words in automobile professional English, but there are no rules to follow. Many compound words and derivative words are important characteristics of automotive engineering English. In addition, in the automotive engineering English, especially in the foreign literature or the introduction of automotive technology, the reader may see a large number of abbreviated vocabulary. With the accumulation of professional vocabularies, phrases and other knowledge, the basic elements of automobile engineering English are built, but this is not enough. In the process of language input, only with excellent grammar knowledge can we correctly understand the content of automotive professional English. In the process of language output, students with grammar knowledge can correctly compose words and phrases into sentences, articles, etc. Automotive engineering English is a highly practical course. By the training of professional English reading, translation and writing skills, students can skillfully read the professional English literature, master the basic skills of professional English translation and writing, and lay a solid foundation for relevant work after graduation.

4. Suggestions on Improving Teaching Effect of Automotive Engineering English

In order to improve the English application ability of the students major in automotive service engineering in application-oriented universities, this paper proposes a modular teaching method. Modular teaching method (MES) is a teaching mode with field teaching and skill training as the core, which is widely used in application-oriented higher education and vocational education. The modular teaching content of automotive engineering English is set three main modules: automotive basic module, automotive maintenance and repair module and automotive design module. Under those three main modules, it is further decomposed into multiple sub-modules (figure1) for multi-level and multi-mode teaching. To achieve the optimal teaching effect, the following suggestions are proposed for the teaching of this course using modular teaching method.

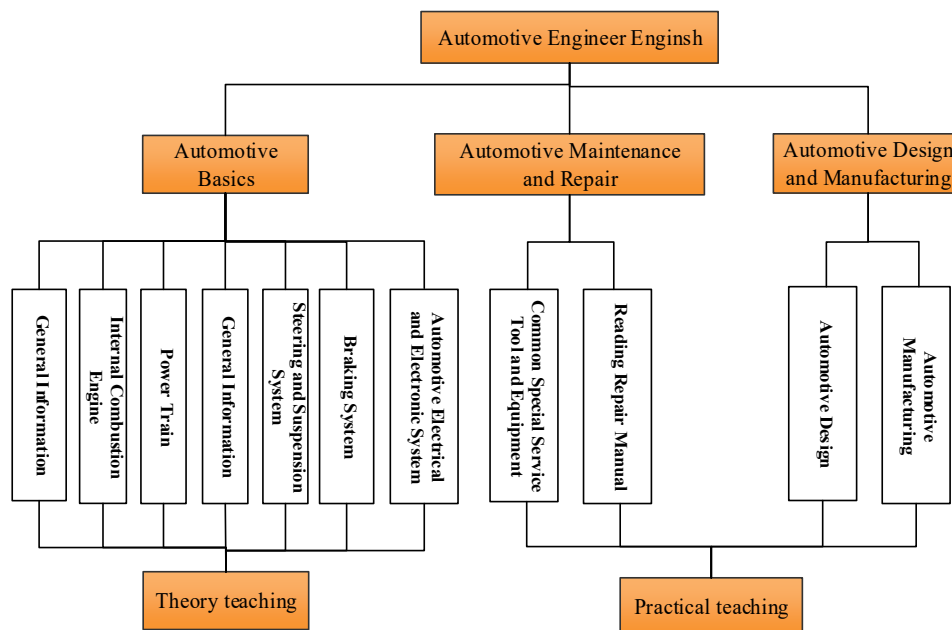


Fig 1. Modular teaching structure diagram

As a fundamental of automotive engineering English, teachers should emphasize English vocabulary, special expressions and important sentence in each unit. At the same time, in the course of explaining the content of the text, teachers must focus on explaining automobile vocabulary, phrases and fixed expressions. In addition, it is very important to teach English grammar knowledge during the course of teaching. Automotive engineering English is a highly practical course. Oral English is an important ability of English application. Therefore, the teacher of “automotive engineering English” should pay attention to stimulate the interest and enthusiasm of students in oral English expression, and overcome their fear of oral communication. The main purpose of learning automotive English is to cultivate students’ ability to read and translate English literature and writing English papers. Accordingly, in the teaching process, it is necessary to strengthen students’ reading, translation and writing abilities and improve the reading and translation skills of scientific and technological texts.

5. Summary

The ability to conduct trans-border, trans-culture academic exchange is not only the necessary quality for a senior subject matter expert, but also a requirement for students major in automotive service engineering. The course of automotive engineering English for application-oriented undergraduate universities is an important means to train this quality. Student-centered modular teaching method which decomposed content of automotive engineering English into multiple modules for multi-level and multi-mode teaching is adopted to improve the teaching effect. During the teaching process, several suggestions are proposed to improve teaching effect.

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