Implementation of Cooperative Learning Method to Enhance the Students' Learning Ability and Students' Core Competencies

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Abstract

Modern society is complex and ever-changing. To adapt to this situation, the level of education must be continuously enhanced, and college students who are about to enter society are the group that needs the most attention. As a creative and effective teaching organizational form and teaching strategy, the cooperative learning method plays an important role in education and teaching. This article research aims to achieve the following two goals: 1) Compare students' learning abilities after the cooperative learning method and traditional teaching method. 2) Compare students' core competencies after the cooperative learning method and traditional teaching method. The participants in this study were students studying physics at Guangxi Normal University for Nationalities in China. It includes a control group consisting of 30 students and an experimental group consisting of 30 students. The research tool used a Likert scale question, and the data were analyzed using normal distribution and standard deviation. The research results show that students' learning ability and core competencies after the cooperative learning method are better than traditional teaching method (P<0.01).

Keywords: core competencies, cooperative learning method, instructional design, learning ability

1. Introduction

1.1 Introduce the Problem

According to the compulsory education curriculum plan and curriculum standards (2022 edition), we should adhere to the goal orientation, problem orientation, and innovation orientation, enhance the comprehensiveness and practicality of the curriculum, guide the transformation of the education method, and strive to improve students' learning ability and core competencies (Miao & Lili, 2022). Although the research on cooperative learning method started early, there are relatively few related studies on cooperative learning method in the "Electrical and Electronic Technology" course, and the implementation of cooperative learning method from the perspective of students to improve their learning ability and core competencies is still in the exploratory stage. In response to the above content, the following questions are raised: 1) When the cooperative learning method is implemented in the "Electrical and Electronic Technology" course, what are the characteristics of the current status of students' learning ability and core competencies? 2) How can the cooperative learning method be further applied in the "Electrical and Electronic Technology" course to help students improve their learning ability and core competencies?

1.2 Introduce the Hypotheses

The literature has shown that there is an effective cooperative learning method that can improve students' learning ability and core competencies. As a teaching model that has received much attention in the field of education and teaching, cooperative learning promotes mutual communication and cooperation among students through group cooperative learning, which is conducive to promoting students' active learning, expression ability and teamwork spirit (Yajun, 2024). Therefore, the introduction of cooperative learning has become an important way to improve students' learning ability and core abilities. This study hypothesizes that: 1) After intervening in teaching through cooperative learning, students' reading ability, comprehension ability, memory, concentration and creativity can be improved. 2) After intervening in teaching through cooperative learning, students' core abilities of humanistic background, scientific spirit, learning to learn, responsibility, practical innovation and

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