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Orginal Article

Study of the Effectiveness of Teaching Method Based on the Teacher- Assistant Project on Environmental Ethics of High School Students

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Introduction

The category of culture and its impact on the environment is one of the dimensions of sustainable development and the first step towards achieving this goal. We need environmental ethics to achieve sustainability, development and environmental protection. An ethic that recognizes and responds sensitively to the complex and changing connections between man and nature. In order for such ethics to emerge, it is necessary to review educational methods and systems. The aim of this study was to study the effectiveness of teaching method based on the teacher- assistant project on environmental ethics of Kashan high school students.

Method

The research method was applied in terms of purpose and in terms of the nature of the collected data, quantitative and based on a quasi-experimental approach (pre-test-post-test design with control group). The statistical population consisted of all male students of 11th grade public schools in Kashan with a number of 1171 people who were selected using the convenient sampling method in two classes of 30 people. To collect data, Firoozfar et al (2021) environmental ethics questionnaire was used, the content validity of which was confirmed by environmental experts, and its reliability was obtained using Cronbach's alpha coefficient of 0.927. Data were analyzed at two levels of descriptive (mean and standard deviation) and

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inferential statistics (univariate and multivariate analysis of covariance) with SPSS26 software.

Results

The results showed that teaching method based on the teacher- assistant project has a positive effect on environmental ethics in students (P<0.0005). Also, teaching method based on the teacher- assistant project has a positive effect on the components of environmental ethics (air, soil, water, plants and animals) in students (P<0.0005).

Discussion

Various studies show that among the many ways to deal with environmental problems, the most fundamental, effective and cost-effective way to prevent environmental degradation is public education and culture and the participation of people in the community. The way of teaching and teaching, especially active teaching methods, also has a great effect on students' self-learning abilities. One of the most important active teaching methods is the method of cooperation between teacher and students and students with each other. Therefore, by using appropriate teaching methods, efforts can be made to improve the level of environmental ethics in students, so that it can be felt in society.

Keywords: Effectiveness, Teacher-Assistant Project, Environmental Ethics, Students, Secondary High School.

Author Contributions: Seyed Mehdi Pamenari has planned general framework, initiated the project, executed the plan, analyzed the results, and reported the findings. Dr. Hossein Hafezi collaborated in general framework planning and analyzing of conceptions, conclusions, manuscript content editing, submission and correction and the corresponding author. Authors discussed the results, reviewed and approved the final version of the manuscript. Dr. Mahdieh Rezaei provided the theoretical framework of the study and directed the overall research process.

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