

ENVIRONMENTAL ETHICS OF HIGHER SECONDARY STUDENTS IN RELATION TO ACHIEVEMENT IN BIOLOGY

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Abstract

This investigation was done to see if there is any significant relationship between environmental ethics and achievement in biology of higher secondary students. The sample comprises of 300 higher secondary students acquired from ten higher secondary schools in Virudhunagar district through simple random sampling technique. The collected data is analysed statistically in SPSS software. The findings reveal that there is no significant relationship between environmental ethics and achievement in biology of higher secondary students.

Keywords: *Environmental Ethics, Achievement, Acquired, Significant, SPSS Software.*

Introduction

Human life is the best creation of God has got two aspects: the biological and sociological or cultural. While the former is preserved and transmitted by food and reproduction, the later is preserved and transmitted by “Education”. Biological aspect is found in plants and animals life also. But the sociological or cultural aspect is the rare distinction of human life alone. It is only ‘Man’ who is capable of being educated. Through education he tries to seek new ideas and new ways of life and he promotes his intelligence and knowledge. “Education is one of the major life processes” of the human individuals. “Just as there are certain in dispensable vital processes of life in biological sense, so education may be considered a vital process in a social sense. Without education, the individual would be unqualified for group life”. Says M. L. Geeting.

Education is an abstract entity and its concept is dynamic. It is a continuous process. It has passed through many ages and stages in the process of evolution. It must continue to grow and change.

Significance of the Study

The study conducted will be of great benefit to the different take holders in education. The results of the present study will help to develop environmental education programs. It will give feed back to the students about environmental awareness and ethics. It will also give feed back to parents and teachers about student environmental awareness and their knowledge on environmental ethics to protect the environment. It will be an eye opener to the administrators regarding the environmental awareness and ethics among the Secondary school students in The findings of the study will help the policy makers, curriculum framers to make education programs environmental friendly. The findings of the study could be utilized for bringing changes in secondary school and higher secondary school curriculum in the subject of environmental studies. The result will also help NGOs and other organizations working in the area of environmental related issues. The findings of the study will have global implications. The Environmental Awareness and Environmental Ethics of students areas perceived by self only. This has made the investigator choose the present study to analyze the environmental ethics of higher secondary students in relation to achievement in biology. Hence the investigator decided to study the problem.

Objectives

1. To find out the level of environmental ethics of higher secondary students.
2. To find out the level of achievement in Biology of higher secondary students.
3. To find out whether there is no significant relationship between environmental ethics and achievement in Biology of higher secondary students.

Hypothesis

1. There is no significant difference between male and female higher secondary students in their environmental ethics.
2. There is no significant relationship between environmental ethics and achievement in Biology of higher secondary student

Methodology

A descriptive survey method was adopted by the researcher to conduct this study.

Population for the Study

The population of the present study is the higher secondary students of Virudhunagar district of Tamil Nadu.

Sample for the Study

The researcher employed the simple random sampling method for selecting the sample. The sample for the present study comprises 300 higher secondary students from higher secondary schools in Virudhunagar district of Tamil Nadu.

Tool

- Environmental ethics and Scales were prepared and validated by investigator and the guide.
- Achievement in Biology of the students is assessed by the marks obtained by them in the Half-yearly examinations in Biology subject.

Statistical Techniques

Percentage, Mean, Standard Deviation, and Correlation

Analysis of Data

Objective 1

To find out the level of Environmental ethics of higher secondary students

Table 1 Level of Environmental Ethics of Higher Secondary Students

Low		Moderate		High	
Count	%	Count	%	Count	%
76	25.3	147	49.0	77	25.7

It is inferred from the above table that, 25.3% of prospective teacher have low, 49.0% of them have moderate and 25.7% of them have high level of e-content of perspective teachers.

Hypothesis 1

There is no significant difference between male and female higher secondary school students in their environmental ethics.

Table 2 Difference Between Male and Female Higher Secondary School Students in their Environmental Ethics

Gender	N	Mean	SD	Calculated 't' value	Remarks at 5% level
Male	133	110.1429	16.988	3.159	S
Female	167	116.2036	16.114		

It is inferred from the above table that calculated 't' value (3.159) is greater than the table value (1.96) for df 298 and at 5% level of significance. Hence the null hypothesis is rejected. It shows that there is significant difference between male and female higher secondary school students in their environmental ethics.

Hypothesis 2

There is no significant relationship between environmental ethics and achievement in Biology of higher secondary students.

Table 3 Significant Relationship Between Environmental Ethics and Achievement in Biology of Higher Secondary Students

Variables	N	df	Table value	'r' Value	Remarks	Level
Environmental ethics VS Achievement in Biology	300	298	0.064	0.188	S	A strong uphill (positive) linear relationship

The above table impels that calculated 't' value is greater than the critical values of 0.064 at 0.05 level of significance. Hence, the null hypothesis is rejected and concluded that There is no significant relationship between environmental ethics and achievement in Biology of higher secondary student. A stronger and positive linear environmental ethics and achievement in Biology of higher secondary students.

Major Findings

1. The Majority 49% of higher secondary students have moderate level of environmental ethics. These findings reveal that the environmental ethics of higher secondary students in Virudhunagar district is moderate.
2. There is significant difference between male and female higher secondary school students in their environmental ethics.
3. There is significant relationship between environmental ethics and achievement in Biology of higher secondary student

Interpretation

1. The finding of the present study shows that there is significant difference between male and female higher secondary school students in their environmental ethics. Female (116.20) are better than male students (110.14) in their environmental ethics. This is maybe due to fact that female have more environmental ethics than male.

2. The finding of the study of results that concluded that there is significant relationship between environmental ethics and achievement in Biology of higher secondary students. A stronger and positive linear environmental ethics and achievement in Biology of higher secondary students. This is due to fact that Environmental ethics increased automatically achievement in Biology increased.

Recommendations of the Study

1. Teacher is one of the most important key who operated the educational system, hence it is necessary to see that they have strong and efficient professional skills.
2. Environment education shall begin from 'self'. It should start with the teacher in all his/her walks of life.
3. Teacher should consider the subject of environment education with holistic approach so as to develop holistic perspective on environment so that students understand the sensitive relationships among physical, biological and socio-cultural dimensions of environment.
4. They should develop self-learning modules or auto instructional package of environmental studies required for different levels of students. They should provide project based activities to students so that students are close to nature. Environmental issues should be taught by the teacher in an integrated manner.

Suggestions for the Further Research

This investigation opens the new avenues to the research in the field of education.

1. A study of environment awareness and environmental ethics among under graduate students and post graduate students.
2. A study of environment awareness and environment ethics among arts, science and commerce students of various universities.
3. A study of environment awareness among elderly people in Tamil Nadu and their attitude towards environment.
4. A comparative study of environment ethics among state board Secondary school students in Virudhunagar district
5. A study of environment awareness and environment ethics among aided and unaided secondary school students in South Tamil Nadu region.

Conclusion

Humans are part of the ecosystem. We are interrelated with each other and every component has their own purpose in the environment. Too much anthropogenic activities have lead to a global problem of pollution. Our natural environment makes human life possible, and our cultural environment helps define who we are. It is therefore essential that our population and economic growth are environmentally sustainable

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