A Comparative Study of Environmental Awareness and Scientific Attitude of Male and Female Under Graduate Students

Vijay Pratap Singh

Research Scholar, School of Education, Glocal University, Saharanpur, U.P., India

Gunjan Rajput

H.O.D., School of Education, Glocal University, Saharanpur, U.P., India Environmental Science, all are collectively same, as a systematic study about our environment. Environmental education has been introduced as a compulsory subject in the curriculum of undergraduate level students of all streams like, art, science and commerce etc. The main objective of environmental education is to provide a wide exposure to students' different serious aspects of the environment. The present study aimed to assessing the awareness and responsibilities about environment, among our educated communities. It is important to know our environment and its scientific aspects closely .The present study has been done by survey method on male and female undergraduate level students. The present study also promotes the scientific attitude of undergraduate students which are not from science background, like art and commerce.

Abstract Environmental education, or Environmental studies

Keywords: Environment, Environmental Awareness, Scientific Attitude, Gender, Undergraduate.

Introduction

Education is universally accepted as a systematic and applied subject. Education is called systematic because it has a well defined pattern of study. Since a long time Education is universally recognized as the most effective tool of bringing out changes towards the social and economic betterment cultural transformation of a society and a nation as a whole.

Environment

The term environment is quite wide in nature. It includes not only physical or material aspects but psychological, social and cultural aspects as well. Thus, environment consists of material and non material surroundings of human beings. Environment is a dynamic phenomenon. It is dynamic and changes occur even if there is no human interference. The environment of any area is in state of dynamic equilibrium. This is what, is called the balance of nature. This balance or equilibrium of nature will get disturbed if the human being try to exploit the nature for their personal greed and lust for enjoyment.

Environmental Awareness

It refers to the awareness about physical, biological, social and cultural aspects of environment. Environment Awareness may be defined as to help the social group and individuals to gain variety of experiences and acquire a basic understanding of environmental and its associated problems. This awareness can be disseminated among young children through formal system of education by introducing various programs and including the content of environment in their curriculum. Environmental Awareness has now become a worldwide slogan and a serious concern is felt in the whole world regarding degradation of environment and that's why, environmental problems are being discussed at different international forums.

The awareness about environment can be achieved through the following measures:

- 1. Assessing, identifying and classifying the actual issues relating to personal life.
- 2. By changing the social structure at all levels such as family, society, community and religion
- 3. By implementing environment education in schools and colleges.

P: ISSN NO.: 2394-0344

Scientific Attitude

Scientific attitude refers a state of mind and a way of life. It is difficult to make a distinction between attitude and other effective attributes of personality like interest, appreciations, likes, dislikes, opinions, values, ideas and character traits. A person having scientific attitude is never superstitious. His mind is like a sea with open mouth, ready to gulp down new facts and has power or concrete and accurate observation and interpretation. There is no short cut or hard method to develop or change attitude of an individual.

Scientific attitude is an opinion taken with respect to a psychological object in the field of science. In the scientific attitude the purpose of this measure would be to find out whether or not the students have developed favorable attitudes towards science as a discipline. This has to be measured on the basis of the underlying assumptions being that one of the outcomes of science education is the development of positive attitude towards the science. Statement of the problem:

A comparative study of environmental awareness and scientific attitude of male and female undergraduate students.

Table No. 1-

2

3

4

5

6

7

8

9

10

11

Sample of The Study

RNI No.UPBIL/2016/67980

S. No. Institutions Name Female Total Male Shri Jay Narayan P.G. college ,Lucknow 40 20 60 Bappa Shri Narayan Vocational P.G. College, Lucknow 60 30 30 Mumtaz Degree College ,Lucknow 40 20 60 Kali Charan degree college, Lucknow 40 20 20 National P.G. College, Lucknow 40 20 20 Eram Girls Degree College, Lucknow 40 40 G.S.R.M. Degree College, Lucknow 60 30 30 Kuwar Ashif Miya Degree College, Lucknow 60 40 20 G.C.R.G. Group of Institutions, Lucknow 15 15 30 Lala Mahadev Prasad Verma Balika Mahavidyalaya 40 40

12 **Research Tools**

The investigator had used two research tools for the study.

Mahesh Prasad Degree College, Lucknow

Charak Degree College, Lucknow

- EAAM-[Environmental Awarenes 1. Measure]-Dr. Praveen Kumar Jha Bihar)
- SAS-[Science Attitude Scale]- [2. Grewal (Bhopal)

Statistical Techniques Used

Following statistical measures were used for analyzing the data1 Mean 60

50

of Data:

int difference between ss of male and female

40

25

20

25

on of the environmental awareness of under graduate students.

than tabulated t-value i.e. 1.98 at the level of 0.05

environmental awareness of under graduate

Table No.2

	Gender EA.	Ν	Mean	S.D.	SEM	t-test	Significant	
	Male	300	36.81	6.058			Significant at	
	Female	300	36.73	6.014	0.492	0.156	0.05 level	
Т	That the table no. 2 shows that the mean scores				3. The calc	ulated t-tes	t value is 0.156 which is	lower

- 1. That the table no. 2 shows that the mean scores of environment awareness of male and female under graduate students are 36.81 and 36.73 respectively.
- The standard deviations (SD) on the scores of 2. male and female UG students are 6.058 and 6.014 respectively.

E-197

VOL-4* ISSUE-2* (Part-1) May- 2019 Remarking An Analisation

Objectives of study

The present research is on the topic is being conducted within the following objectives:

- To compare the environmental awareness of male and female under graduate students.
- To compare the scientific attitude of male and 2. female under graduate students.

Hypothesis

The null hypothesis of the study includes the followings-

- There is no significant difference between 1. environmental awareness of male and female under graduate students.
- There is no significant difference between 2. scientific attitude of male and female under graduate students.

Research Methodology of The Study

The research methodology of present study is Descriptive Survey method.

In the present study, the investigator selected 12 institutions for random sampling in Lucknow district. He selected 600 under graduate students, 300 male and 300 female students, as sample.

			mean			
standardiz	ed 2	2.	Standa	rd D	evia	tion (S.D.
	3	3.	t-test			
ss Abi	lity 🖌	4na	lysis ar	nd li	nterp	oretation
(Madhaup	ur, 1	۱.	There	is	no	significa
			environ	mer	ntal	awarenes
Dr. Avina	sh		under g	grad	uate	students.
	1	1.1.	Gende	r w	ise d	compariso
			awaran	222	of u	nder arad

significant. 4. With the use of t-test we found that the first null hypothesis related to environmental awareness on comparison of gender, is accepted, on level of 0.05 significant. This shows that the

students not differs on gender basis.

P: ISSN NO.: 2394-0344

RNI No.UPBIL/2016/67980

E: ISSN NO.: 2455-0817

- There is no significant difference between scientific attitude of male and female under graduate students.
- **Remarking An Analisation** 2.1. Gender wise comparison of the Scientific Attitude

VOL-4* ISSUE-2* (Part-1) May- 2019

of under graduate students.

Table	No.3
IUNIC	110.0

Gender EA.	Ν	Mean	S.D.	SEM	t-test	Significant
Male	300	49.08	10.30			Significant at
Female	300	51.86	11.86	0.906	3.064	0.05 level

- 1. That the table no.3 shows that the mean scores of scientific attitude of male and female under graduate students are 49.08 and 51.86 respectively.
- 2. The standard deviations (SD) on the scores of male and female UG students are 10.30 and 11.86 respectively.
- 3. The calculated t-test value is 3.064 which is Higher than tabulated t-value i.e. 1.98 at the level of 0.05 significant.
- 4. With the use of t-test we found that the second null hypothesis related to scientific attitude on comparison of gender, is rejected, on level of 0.05 significant. This shows that the scientific attitude of under graduate students differs on gender basis.

Conclusion

The findings, as the results of investigator, are listed as following-

- It means that there is no significant difference between environmental awareness of male and female UG students. It was also found that the environmental awareness of male and female students are near about equal. It means that male and female students are both interested to know and understand the environment.
- It means that there is significant difference between scientific attitude of male and female UG students. It was also found that the scientific attitude of female students is higher than the male students. It means that female students are more interested to know and understand the scientific aspects.

Education Implication of the Study

1. Educationists, educational administrators, and teachers must acquaint their pupil about pros and cons of environmental pollutions.

- 0.906
 3.064
 Significant at 0.05 level

 2.
 It would be more beneficial and effective if special programs are launch to develop environmental awareness among the students. This is possible only through inclusion of special courses on environment education in school curriculum.
 - 3. Value oriented education in the light of environmental pollution and environment awareness should be provided.
 - 4. The government should provide books related to science and environment for students.

Bibliography

- Anandarasu, R. (2016)" B.Ed Students attitude towards environmental education.EDU Tracks Educational Journal, vol.15-No. 11, PP14-18
- D.Malathi, K. (2002).Gender difference in environmental awareness.
- Grewal, A. (2005) science attitude scale (SAS), National Psychological Corporation, Agra.
- Jha, P. (2009) Environmental Awareness Ability Measure. National psychological corporation, Agra.
- Sandhya (2007), A study of environment awareness and scientific attitude of secondary level students. M.Ed dissertation, bundelkhand University, Jhansi.
- Sharma, S.R. (2006), Methods of Educational Research, Anmol Publication.
- Singh, A. (2004), A study of learning study of secondary school students with scientific attitude and their achievements in science, Ph.D Education, Lucknow University.
- Shukla, Vinay. (2009), Environmental Awareness and attitude of teacher, of secondary schools, M.Ed. dissertation, C.S.J.M. University, Kanpur.