



Environmental Awareness Among the Students of the Faculty of Education

Buthaina Shaheed¹, Maha Tofeeq²

¹College of Nursing/ Qadisiyah University, Iraq.

²College of Medical/ Qadisiyah University, Iraq.

Abstract

Student search slice represents the extract of the most important components of society which can play a big role in addressing the various problems and obstacles in order to follow the technological development that the purpose of this study: identify the environmental awareness among the students of the Faculty of education. Detect indications of differences to environmental awareness among students depending on the variable gender (male, female) 3. detect indications of differences to environmental awareness due to the variable competence (knowledge, human) research has been determined by the College of education for the academic year 2017 research goals requests creation of a tool to measure the level of awareness Ecosystem then ascertain its truthfulness and consistency through displayed on a group of experts in psychology and ecology researchers applied the scale on a sample of (400) then the data were analyzed using statistical case for Social Sciences (SPSS) results: environmental awareness among students Average education. No statistical differences in the level of environmental consciousness according to heterosexual (male, female). There are differences in the level of environmental awareness due to the variable competence (knowledge, human). Based on these results, we offer a number of al astenta. 1. to adopt environmental sciences department at Faculty of science scientific strategies to promote environmental awareness through many seminars and set up seminars and awareness and educational lectures for all cadres in the University as well as the various strata of society. 2. Activate the role of the media, working on achieving compliance with laws and regulations and avoid all illegal means to be environmentally friendly. From: numerous studies and researches on this subject have great importance on individual and community health.

The Problem

The problem of environmental pollution is not a new or urgent problem for the Earth, but the new prelim is the increase of pollution as in the present day. The problem of environmental pollution is disturbing the thought of reformers, scientists and wise people and making them alert .They began to tick the alarm bells and call for stopping or reducing this pollution that is exposed to the environment as a result of industrial renaissance and technological progress in this age.

Pollution is a global problem that does not recognize the political borders and the fact that the environmental dangers are no less dangerous than the conflicts, wars and deadly diseases, if not more [1]. The researchers believe that the pollution of the environment has become a phenomenon we

live in every day and we feel it in all the facilities of life.

This problem has not only harmed the life of the cities, but has extended its roots to all places including the countryside. Has been clearly reflected on our society and this is evidenced by many of the statistics carried out by the World Health Organization, that environmental pollution caused the deaths of more than (5) million children annually as a result of environmental diseases and accidents. [2]

Therefore, the researchers decided to study this subject because of its great importance in the progress and development of the country, and the role played by the universities in the vital role in societies. As students prepare an important segment can

contribute to the development of future policies that contribute to reduce environmental problems, so this study, which will try to answer the following question:

(What level of environmental awareness among students of the College of Education?)

Research Goals

- The current research aims to estimate the level of environmental awareness among the students of the College of Education.
- The difference in environmental awareness among the students of the College of Education is defined according to the study specialty (scientific, human).
- The difference in environmental awareness among the students of the College of Education is defined according to the gender (males, females).

Search Limits

This research was limited to the students of the College of Education morning study 2016-2017. Terminology Environmental awareness is known to many of them from the knowledge of language and including terminology.

A-Language: is the understanding and integrity of perception. [3]

B-Terminology

Mohammed (2006) defines it as "the individual's perception based on his sense and his knowledge of environmental relations and problems in terms of their causes, effects and means." [4] Natsheh, 2006, defines it as "the extent to which students acquire the knowledge, attitudes, values and skills needed to contribute to the protection and improvement of the environment, as well as their knowledge of the risks to the environment and life on the planet resulting from the negative behavior of humans" [5,6].

"The sense of the environment and its problems through the acquisition of knowledge, values, trends, skills and behaviors that make the individual responsible for the direction of the environment to maintain public health, because the human being is the first object that must harness all the possibilities to maintain his physical and psychological health to be Able to carry the message of

knowledge and knowledge to him and to future generations." [6]

Chapter II

The twenty-first century has reached and environmental problems continue to make everyone more complex. In spite of the tremendous progress in industrial techniques and the development of community practices, these problems are still far from successful solutions. [7]

Therefore, the issue of pollution has become the focus of interest of many institutions and governmental organizations local and international, which led scientists and researchers on the environment to hold many seminars and conferences to discuss and study those risks caused by pollution and find solutions and suggestions for the awareness of the risks and damage caused by environmental pollution as in the development known as the Earth Summit, which was held in Rio de Janeiro, Brazil in 1992 and was one of the most important recommendations of the conservation and the environment, as well as a conference in the Copenhagen Park Copenhagen climate change for the year (2009) was the most important recommendation E emphasizes the need for the commitment of industrialized countries such as China, India, Japan and the United States to cut their outcome products from the gases and reduce temperatures by 2012 and also scientific third conference to combat environmental pollution and desertification (2008) which was the most important recommendations of the sail and planting.

Environmental Pollution

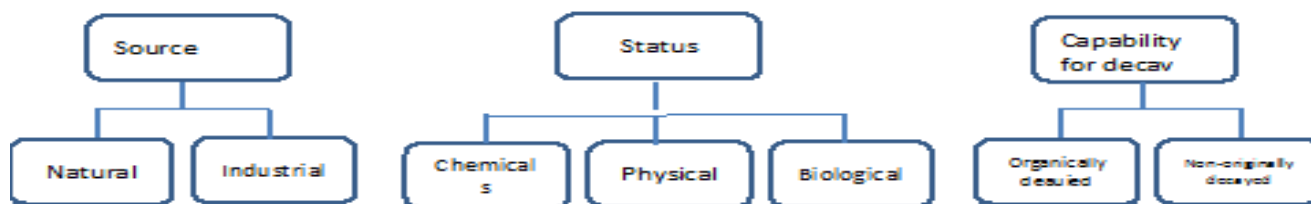
Environmental pollution is one of the most important problems that are becoming more serious one day after the other. This is due to a deficiency and a lack of awareness among individuals about the risks to their health first and then to the environment as a whole, so it is worth all officials and decision makers, academics and teachers as well as those who are in the preparation of curricula for all levels of education Take into account the need for the curriculum to include knowledge and concepts that increase the awareness for children and warn them of this great danger that the teacher is the first and the other responsible for the modification and organization of behaviors in the educational

institution and know the students environmental environment and problems and ways to maintain it and awareness of To minimize the extent of those problems to build a sound and clean society, which is reflected on the individual and community health.

The concept of environmental pollution is known to many people who are interested in the field of environment, home soil and environmental pollution, ie, any physical, chemical or biological change, which leads to harmful interference to air, water or soil, or harms the health of humans and other living organisms on the status of renewable resources) [8] as "a change in the natural and vital properties of the environment surrounding the human being (water, soil, water) and may cause damage to human life or of other plant and animal organisms, or damage and disturbance in living conditions in general and Valuable cultural heritage such as buildings and archaeological sites ". [8]

Environmentalists have identified environmental pollution as follows:

- Acceptable pollution: It is a degree of pollution that is not affected by the balance



The researchers believe that these pollutants with its differences in origin, nature and susceptibility lead to damage to the environment and humans.

Are Environmental Pollution

Department of Shehab and Abdul-environmental pollution according to the middle of the spread to several types including:

- Air pollution: It spreads in the air in the form of gases or solid smoke falling on the soil with rain or earth gravity, including gas compounds and carbon, sulfur, and nitrogen oxides.

of the ecosystem is not accompanied by any problems, so it is a phenomenon not a problem.

- Dangerous pollution: It is the suffering out of many industrial countries and mainly due to industrial activity and increase mining activity and rely mainly on coal and oil as energy exporters and this stage is an advanced stage of pollution.
- Destructive pollution: represents a stage beyond the stage of dangerous pollution, in which the ecosystem collapses and becomes unable to give and because of the difference in the level of equilibrium radically and requires years to re-balance by the intervention of the human element at high economic cost. (Spring and Others, 2010: 30)

Contaminants

Contaminants are defined as substances that cause damage to humans and the environment and may be natural and microbial, which cause many diseases and also lead to destruction.

Environmental components are divided into several axes

Pollutants are Divided By

- Soil contaminants: reach the soil by throwing or adding by humans or by air or water and natural propagation agents. These include radioactive materials, pesticides, heavy metals, mineral salts, chemicals and residues of many substances.
- Water Pollutants: They are in the form of salts and organic compounds dissolved in various plants, animal, industrial, animal and other organisms. They include chemicals, and phosphate fertilizers, inorganic materials and other dissolved salts [9].

Environmental Awareness

Yasir (Hussein, 2004) notes that environmental awareness consists of two types:

- Full awareness (preventive) is preventing the problem.
- Therapeutic awareness: is the awareness in which the person addresses and confronts the actual problems resulting from misuse.

Environmental Awareness has Three Sides

- The society with all its institutions, departments, factories and bodies.
- State and its devices.
- Individuals who represent the protectors of the environment provided by awareness of knowledge and understanding and perception of their role correctly towards the environment (Hassan, 2004: 179)

Objectives of Environmental Awareness

- Facilitate environmental knowledge and uncover related facts.
- Encourage participation in the reduction and prevention of environmental problems.
- Facilitating environmental knowledge and uncovering relevant facts. [10]
- To develop environmental knowledge among different groups of society, help them to understand the environmental problems surrounding them, so that they have a share of the contribution to the preservation of the environment.
- Generate enthusiasm for finding appropriate solutions, through the implantation of environmental values aimed at the conservation of the environment, which threatens the risk of penetrating into the roots of the real ills in the way of life of everyone.

In order to achieve the environmental awareness of the citizen, the Arab project found in most environmental laws the basis for tightening the penalties for the perpetrators of environmental crimes, based on the protection of the environment and natural resources, which requires giving environmental law an important role in providing legal protection for the environment. [7] The researchers see that there should be held for many conferences,

seminars and seminars on the risks of environmental pollution and its impact on countries and their developmental progress in light of technological progress and human participation in environmental control and promote environmental education and raise awareness of current and future environmental issues.

The Role of Universities in Spreading Environmental Awareness

In any of the countries, universities are the main pillar of scientific and technological progress, so we see that most societies are measured by the degree of development of their universities, because it plays a great role in creating a person capable of properly dealing with the requirements of life with a real awareness of reality.

The university must be a society that must contribute to building the national sense of awareness when it is needed. It must establish the values and behaviors that call for preserving the edifice of the society, its environment, its wealth, and confronting The University can play this role through a range of media activities, holding seminars, seminars and awareness lectures, as well as conferences that can play a large role, as well as providing many educational programs for students and classes of society.

Environment protection

Previous Studies [11]

The aim of this study was to identify the causes of air, water, noise, food and damage caused by these pollutants. The study also aimed at finding differences in environmental awareness according to the different collages. The questionnaire was used by the researcher. The results of the study show the level of environmental awareness about the causes of air pollution, water, noise, food and the damage caused by this pollution among Umm Al Qura University students.

The study did not find any significant differences in the degree of environmental awareness among Umm Al Qura University students due to the different college. Otaibi [11]. Al-Badrani Study (2004) the study aimed to identify the level of environmental awareness among the students of the Department of Life Sciences at the College of Education, Mosul University and its relation to gender and educational levels. The sample

consisted of (120) students from the Department of biology for the academic year 2002-2003. 64) First paragraph: environmental information (30) paragraphs two: the trend towards the environment (34) paragraph. The results showed that there was no general difference in the general environmental awareness of the students. The general average was (61%) compared to the target score (70%). The results showed that there was no difference Statistical significance among students (males or females) and among in the classroom [12].

Abu Al-Laban Study [13] the study aimed to identify the level of environmental awareness and its relation to some variables among the students of the College of Education in Palestinian universities. The researcher used the descriptive analytical method and designed a measure of environmental awareness consisting of 49 paragraphs. The sample consisted of 472 students from the College of Education, The study showed that the level of environmental awareness among students (79%) was less than the researcher's default rate (85%), indicating the low level of environmental awareness in the study sample of the accepted standard , And the study showed no.

The statistical results were attributed to the variable of the type of study (scientific - literary), and the absence of differences of statistical significance due to the different level of the study, and the absence of differences of statistical significance attributed to the university variable (Islamic, Azhar, Jerusalem, gender was in favor of females. Study the aim of this study was to identify the level of environmental awareness among a group of university students. The sample number was (75%) of the students and was chosen deliberately from different disciplines. A questionnaire was applied to measure the environmental awareness of the students. The results indicated that the

sample was not exposed to sufficient quantity of information and knowledge, as well as the level of students of scientific disciplines and their level of knowledge of the best humanity. The study recommended the need to pay attention to environmental education at all levels.

Chapter III: Research methodology and procedures

The procedures that were adopted in the current research included the methodology followed by the descriptive approach as one of the appropriate scientific research methods to study the interrelationship between the variables and the detection of the differences between them and the identification of the research society, the selection of a representative sample and the preparation of a standard characterized by reliability, On the research sample and determine the statistical means used in it as follows.

First, the research community The research community is defined as "all individuals who are the subject of the research problem" The research community is determined by the students of Qadisiyah University in all its scientific and human faculties and for the second and fourth grades for the academic year 2016-2017 and for the morning study only. The total number of students reached (8062) students. The number of students in scientific colleges reached 4229 students and 3833 students.(3807) males and (4295) females.

The Research Sample

Al-Jadri defines the research as "a group is willing of elements that are withdrawn from a society that wants to search according to special rules in order to properly represent the society" [14] The researchers randomly selected the random sample of 400 students from the University of Qadisiyah University. Table (1) shows this.

Table 1: The final research sample is broken down by colleges, specialization, grade and gender

specialty	No.	College	Second year		Fourth year		Total
			Type		Type		
			Mal	female	mal	female	
Scientific study	1	Nursing	4	5	3	5	17
	2	Engineering	5	4	5	4	18
	3	Management & Economy	3	5	3	5	16
	4	Education	12	8	26	12	58
	5	Medical	3	6	2	5	16
	6	Computer science and math	5	4	3	5	17
	7	Agriculture	10	8	14	9	41
		Total	42	40	56	45	183

Human study	9	Law	10	7	11	6	34
	10	Arts	7	3	8	1	19
	11	Education/ Humanities	18	22	17	18	75
	12	Sports	16	28	17	28	89
	Total		51	60	53	56	217
			183		207		
			400				

Search Tool

In order to achieve any research objectives, there must be a tool to verify that and fit the sample of the study and researchers were able after reading many of the literature and previous studies to adopt a scale commensurate with the research environment prepared by (Alsqr, 2007) Of the tool as follows.

Indicators of Reliability and Consistency

Reliability is one of the important conditions that must be met in building standards, and "reliability means to what degree the test measures the situation." [15] The validity of the scale has been achieved through the presentation of the paragraphs of the scale on the experts concerned and taking their views and this is called virtual truth.

Table 2: Demonstrates the views of experts on the validity of the environmental awareness scale

Paragraph numbers	Experts views		Ka 2 calculated value	Level of significance
	Design	Approved		
3, 2, 1	-	15	18	Function
14, 12, 10, 6, 5, 4	2	13	14	Function
7		11	10.3	Function
15, 11, 9, 8	1	14	16	Function
13	2	13	15.2	Function
27, 26, 21, 19, 16	2	13	15.2	Function
29, 28, 24, 23, 20, 18, 17		15	16.1	Function
22	2	11	10.3	Function
43, 40, 30, 25	1	14	16	Function

The standard is not constant unless it yields the same results if applied to the same group of individuals again. Stability refers to accuracy and consistency in the performance of individuals, and stability in results over time. To calculate the stability factor for the level of environmental awareness, the researchers began to use the method of re-testing.

After the researchers applied the scale to a sample of (100) students randomly selected from the research community, after 15 days applied the scale again on the same sample, Stability to accuracy and consistency in individual performance, and stability in results over time. The coefficient of stability is (80.0) and the test is constant as it is a high correlation coefficient [16].

Statistical Means

The researchers used the statistical tools in the current research using the statistical program (SPSS) in data processing, as follows:

- Test KA²: Use to know the significance of the opinions of the arbitrators in the validity of paragraphs of the scales of research.

- Person correlation coefficient: used to find the relationship between the degree of field and the total degree of field to the level of environmental awareness level, and the extraction of stability in a retest method.
- The relationship between the equations (Alpha Kronbach): used to extract the value of stability of the scale.
- Analysis of the triangular variance: Use to find the differences between the variables of the study for each of the types (males, females) and specialization (scientific, human) and the stage of the scale.

Chapter Four: Presentation and Interpretation of Results

The First Goal

Identify the level of environmental awareness among university students. To achieve this goal, the environmental awareness scale was applied to the basic research sample of 390 students. After using the statistical treatments, it was found that the students of the university had an average level of environmental awareness, and Table 3 shows this.

Table 3: The results of the T-test to reveal the difference between the average and the score average of the individuals of the research sample on the level of environmental awareness

Variable	members	Average score	Standard Devotee	Estimated average	T values		Freedom degree	Level 0.05
					Calculated	Table		
Environmental awareness	390	70.9	19.11	75	2.75	1.88	399	Faction

This result indicates that the members of the research sample have an average level of environmental awareness. This is due to the fact that universities to this time the technological and scientific development at its peak did not take the universities a clear scientific methodology of the importance of environmental awareness in reducing many of the environmental problems that have repercussions The study is based on the

study of Al-Badrani (2004) and Palm Berg & Kuru (2005).

The Second Goal

To achieve this goal, the researchers used a triangular variance analysis to determine the significance of the differences in the level of environmental awareness among university students according to the following variables: - Gender (males, females) for variables (sex, specialization, stage), as shown in Table (4).

Table 4: Results of the analysis of the triangular variance to find out the significance of differences in the level of environmental awareness among university students according to the variables: Gender (male, female), specialization (scientific, human) and the academic stage

S.V	S.S	D.F	M.S	Alpha Velum		Faction level
				Accounted	Tilde	
Specialty	572,730	1	572,730	7,348	3.84	0.05
Gender	29,180	1	29,180	0,374		
Specialty x gender	203,702	1	203,702	2,61		
Specialty x class	187,127	1	187,127	2,401		
Gender x Class	0,026	1	0,026	0,000		
Triple interaction	861,119	1	861,119	11,049		
Inter cells	30551,845	392	77,938	-		
Total	32856,560	399	-	-		

The statistical treatments in the table above indicated the following results:

There were statistically significant differences between the mean scores of the sample in the level of environmental awareness according to the specialization variable (human, scientific). The calculated alpha value was (7,348), which is larger than the numerical value of the table (3.86) (85,696), which is greater than the mathematical mean of the degrees of human specialization (84,131).

This indicates that the students of scientific specialization have the highest level of environmental awareness of the humanities specialization, And this result can be explained in light of the difference of specialization as well as the different materials and scientific approaches.

There were no statistically significant differences between the average scores of the sample in the level of environmental awareness according to the gender variable (male and female). The calculated alpha value was (0.374), which is less than the

numerical value of the table (3.86), 05), and this indicates that there is no gender difference in their level of environmental awareness.

Recommendations

- The Department of Environmental Sciences at the College of Science adopts scientific strategies to promote and spread environmental awareness through the establishment of several seminars, awareness and educational lectures for all cadres in the university as well as the different strata of society.
- Activating the role of the media in order to achieve compliance with the laws and avoidance of all means of illegal to harm the environment, because of this issue of great importance in the health of the individual and society.
- The interest of specialists in updating the curricula and courses that include topics and terminologies for the development of awareness and environmental education.
- Universities are working to provide activities, programs and events that can

help in the development of environmental awareness.

Proposals Include

- Conducting a study to measure the level of environmental awareness among the college teaching members.
- Conducting an assessment study of the curriculum content in the light of contemporary environmental issues.
- A study similar to the current research on the stages of study and other social segments.
- Conduct a study on strategies to develop environmental awareness among students.

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Appendix (1)

No.	Name	College
1.	Prf. Hadi Kedfan	Education
2.	Prf. Asst. Behija Ubaies	Medical
3.	Prf. Fu'ad menhar	Education
4.	AbdulAmeer Lilu	Nursing
5.	Fatimah Al- Khalidy	Medical
6.	Prf. Asst. Ra'id Kadhim	Environment
7.	Prf. Asst. Haider AbdAl-Sada	Environment
8.	Prf. Asst. Khadijah Ubaies	Education
9.	Mustefah Ne'eem	Education
10.	Wijdan nadir	Education
11.	Aliaa' Khudaier	Nursing

Appendix (2)

University of Qadisiyah College of Nursing

M / resolution of expert opinions and arbitrators

Professor FadelRespected

The researchers carried out a study entitled ((Environmental awareness level among the students of Qadisiyah University). The researchers adopted the scale (Al-Saqar, 2007) and the adoption of its theoretical definition of environmental awareness is a set of knowledge and information related to the environment and related issues

Helps the individual understand the environment in all its dimensions and understand the problems related to it)

The researchers identified five alternatives to answer the scale: ((very agreeable, OK, neutral opponents, strongly opposed)).

Due to your scientific expertise in this field, you have been selected as a committee of experts and arbitrators to judge the validity of paragraphs of the standards and alternatives to answer. And thank you from the researchers

Researchers

Scale of environmental awareness level

No.	Paragraph	Very ok	Ok	neutral	opposed	Strongly opposed
1.	Environmental education aims to solve complex environmental problems					
2.	Nuclear energy poses a major threat to the environment					
3.	Water consumption should be minimized as much as possible					
4.	I would like to attend conferences and seminars on the environment					
5.	Industrial activity is one of the largest sources of environmental pollution					
6.	Planting trees helps solve the problem of desertification in Jordan					
7.	The use of increase agricultural hormone dose does not affect the environment.					
8.	Referred to participation in trips that aim to identify the environment					
9.	Floods are one of the major natural disasters in Jordan					
10.	Birth control helps reduce population inflation					
11.	I think that caring for the environment helps improve the living conditions					
12.	I love to participate in awareness campaigns for citizens					
13.	One of the main reasons for the housing problem in					

	the city of Amman is the migration of the villagers				
14.	To increase environmental awareness, students must be provided with the skills and knowledge to help with the environment				
15.	In order to reduce the risk of waste, special plants should be set up for the recycling and manufacture of waste				
16.	Make average in the use of water constantly				
17.	Jordan suffers from the problem of lack of groundwater				
18.	Oil is the main source of energy in the natural ecosystem				
19.	The migration of the rural population to the city leads to increased economic growth				
20.				
21.	Family planning awareness helps solve population problems				
22.	In order to benefit from the rainwater, dams must be built in Jordan.				
23.	To develop the agricultural crop, the land should be cultivated with one crop continuously and for consecutive seasons.				
24.	I think the environmental problems in Jordan can be solved.				
25.	All concerned parties must cooperate to solve environmental problems in Jordan.				
26.	The sun is a major source of energy in the natural ecosystem.				
27.	For low energy pollution must shift towards solar energy.				
28.	Be careful not to contaminate the natural places that I visit.				
29.	The problem of acid rain is one of the most serious environmental problems facing the world.				
30.	Electricity consumption is an indicator of an individual's environmental awareness.				
31.	The use of growth hormones in agriculture poses a threat to the environment and human life.				
32.	I love listening to radio or television and audio is high.				
33.	Factories must be far from residential areas.				
34.	To protect the environment from pollution must reduce energy consumption.				
35.	Industrial waste should be disposed of by isolation and chemical treatment.				
36.	I feel that educating people about environmental issues through the media is useless.				
37.	To reduce the problem of water, it is preferable to set up public water purification plants.				
38.	Planting trees improves air purification.				
39.	Work must be done to increase production and reduce consumption.				
40.	I think smoking contributes to environmental pollution.				
41.	Committed to the application of legislation protecting nature and animals.				
42.	To protect the environment from pollution, coal must be used to obtain energy.				
43.	Participate in projects that serve the environment and help solve problems.				
44.	I do not feel the problems of the environment in Jordan.				