

## Emotional and Spiritual Intelligence as Predictors of Eco Friendly Behavior of Undergraduate

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**Abstract:** - The increase interference of human beings with Environmental processes has created environmental crisis. To check and make aware to this problem and to develop environmentally responsible behavior, environmental education is made compulsory subject. The present scenario is quite unsatisfactory as environment is deteriorating further. An effort is made to know the role of emotional and spiritual intelligence on eco-friendly behavior of undergraduate student. The co relational research design was used to conduct study. Random sampling technique was used to select 300 student of 1<sup>st</sup> year of graduation from 3 degree college of Agra city, 150 male and 150 female. The result indicated that educational and spiritual intelligence are powerful predictor of eco-friendly behavior of undergraduates and both variables accounted for 55% variance in their eco-friendly behavior.

### I. INTRODUCTION

Nature is so fascinating and embodies the spirit of its creator. The nature has very intelligently evolved the human species on earth to provide protection to the entire spectrum of the existing natural resources. The great protector of the earth has today become potential predator of the entire natural environment and a prime decimator of the wild life resources. Rapid industrialization, voracious appetite, men's greed and unlimited exploitation has left us with polluted rivers, contaminated soil, depleted forest and wild life and exhausted natural resources.

One fact we must bear in mind is that the survival of man depend upon how judiciously has he manage the earth and maintains the quality of overall environment. In 1972, the leader of the international community met at Stockholm and expressed grave concern over the readily deteriorating environment. A number of well international declarations were made. Various institutions both at the national and international levels were set up. Since Stockholm to Copenhagen number of conference, summit & meets have been held all over the world and millions of dollars spent. From 1975 every nation is imparting environmental education and in India from academic session 2004-05 it has been made a compulsory subject at each level of education.

From the above facts, pertinent and fundamental question arise, why in spite of such efforts Stockholm (1972) to world summit of Copenhagen (2009), the world environment has deteriorated further and ecological imbalance intensified. This may be because thinking and actions of contemporary societies are being shaped by mechanical view of nature and thus little realization and sensitization that life and nature are inseparable parts of a cosmic web. So the need of today is to channelize the thought system of individuals, making him sensitive toward the nature and transforming their behavior consumerism to environment friendly. Some degree of emotional self awareness and empathy is an important foundation for successfully start our spiritual growth. Emotional intelligence makes us sensitive towards a thing or human being and to deal with own emotions and others effectively and appropriately. While spiritual intelligence leads to that state of mind in which we think the "Welfare of all". Thus an effort is made to know whether these two intelligence have any role in making our behavior eco-friendly.

### II. OBJECTIVES

1. To study emotional intelligence of undergraduate students.
2. To study spiritual intelligence of undergraduate students.
3. To study eco friendly behavior of undergraduate students.
4. To ascertain the Zero order relationship between criterion and dependent variable.

- To study the relative contributory role of criterion variable in determining the eco friendly behavior.

### Hypothesis

- There is no significant difference between the emotional intelligence of male & female undergraduate students.
- Male and female undergraduate student do not differ in their spiritual intelligence.
- No significant difference exists among eco friendly behavior of male and female undergraduate students.
- No significant relationship exists among criterion and predictive variable.
- Criterion variables do not play any role in determining the eco friendly behavior of students.

### Variable

Independent variable – emotional & spiritual intelligence

Dependent variable – Eco friendly behavior

### Method

The study involves correlation method.

### Sample

Study is conducted on 300 students of undergraduates (Studying in 1<sup>st</sup> year of graduation) of both the sex (150 male and 150 female) from 3 colleges of Agra city affiliated with B.R. Ambedkar university by random sampling method.

Tools – The following tools are used for the collection of data.

- Mangal emotional intelligence inventory by Mangal & Mangal.
- Spiritual intelligence scale – self constructed.
- Environmental friendly behavior measure – self constructed.

### Statistical Techniques –

To analyses the data according to objective of study. Mean, S.D. C.R., product moment correlation and regression analyses are used.

### Result & discussions – Objective I - Study of Emotional intelligence of undergraduates

**Table 1 Statistical Preview of emotional intelligence scores of undergraduates**

Sex	Male	Female	Total
Statistics			
Mean	58.17	59.82	58.99
S.D.	38.57	38.72	38.62
C.R.	1.369		

The mean value (58.99) for total group indicates that undergraduate students have average level of emotional intelligence showing less ability of youth to cope with their emotions. The male and female undergraduates do not differ in their emotional intelligence as confirmed by statistically insignificant value of C.R. even at .05 level thus Null hypotheses is accepted.

### Objective II - Study of spiritual intelligence of undergraduate students

**Table – 2 Mean, S.D., C.R. of spiritual intelligence score of undergraduates**

Sex	Male	Female	Total N- 300
Statistics	N(150)	N (150)	
Mean	116.75	120.42	118.58
S.D.	24.12	26.74	25.06
C.R.	.917		

The perusal of above table reveals that undergraduate students have average level of spiritual intelligence as shown by mean (118.58), to some extent satisfactory as today's materialistic world our youth still have spiritual nature. Great variation is observed in spiritual intelligence score as shown by high value of standard deviation. The Male and female students do not differ in their spiritual intelligence inferred by value of C.R. 917 which is not significant even at .05 levels of confidence, thus for this objective also Null hypothesis is

accepted. This is quite surprising that boys also have faith in some supreme power and neglecting the common concept that females are more spiritualities than males.

### Objective III - Study of eco friendly behavior of undergraduates

Table – 3 Statistical preview of eco friendly behavior score of undergraduates

Statistics	Mean	S.D.	C.R
Sex			.466
Male	54.17	36.41	
Female	56.98	37.19	
Total group	55.57	36.12	

The perusal of mean values shown in table indicates that undergraduate students do not have favorable behavior towards environment as the obtained mean score of eco friendly is quite lower in comparison to the maximum scores of eco friendly behavior scale i.e. 120. This picture is quite unsatisfactory and compelled us to find the answer, why in spite of imparting compulsory environmental education in school and colleges, we are fail to develop eco friendly behavior among our students. The same results were found by study conducted by Japan science and technology agency in university of Tokyo on topic 'change, in environmental consciousness and behavior led by information concluded that environmental consciousness has been increasing in Japan, where as environmental friendly behavior has not. This may be the reason that our environmental education is imparting environmental awareness and knowledge among students but not channelizing our behavior toward beneficiary to environment.

The value of C.R. (.466) which is lower than the calculated table value even at .05 level of significance is revealing the fact that male and female undergraduate students do not differ in their eco friendly behavior and thus null hypothesis framed for this objective is accepted.

### Objective IV- Zero order Correlation among predictive & criterion variable

Table – 4 Showing inter correlation among variable

Variable	(coefficient of correlation (r))		
	X1	X2	X3
X1 (eco friendly behavior)	-	.55	.68
X2 Emotional intelligence	.55	-	.41
X3 Spiritual intelligence	.68	.41	-

The values of coefficient of correlation shown in table between eco friendly behavior (X1) and scores of emotional intelligence (X2) and spiritual intelligence (X3) are .55 and .68 respectively which are positive and significant, thus indicating the high and positive relationship between criterion and predictive variable.

### Objective V - Relative Contributory Role Of Predictive Variable On Criterion Variable

To determine the relative contributory role of each predictive variable in determination of eco friendly behavior of undergraduate students, multiple regression analysis is carried out. With the help of Zero order correlation matrix, value of Beta coefficient (B) regression coefficients (b), coefficient of multiple correlation (R), coefficient of multiple determination are computed.

Table – 5 Showing multiple correlation, Regression coefficient & common variable

Variable	r	R	R <sup>2</sup>	B	BXr	(b)
Emotional intelligence & Eco friendly behavior (X2)	.55	.729	.5314	.372	.2156	.366
Spiritual Intelligence and eco friendly behavior (X3)	.68		Variance 53.14%	.465	.3162	.670
Regression equation – $X1 = .366 X2 + .670 X3 + K$						

The values of positive regression weights shown in table confirming the effect of both predictive variables on eco friendly behavior of undergraduates. The value of R<sup>2</sup> .5314 is the indicative of the fact that 53.14% variance in eco friendly behavior of undergraduates could be accounted by the cognitive predictive variables i.e. emotional and spiritual intelligence. The separate variance of emotional intelligence and spiritual intelligence for eco friendly behavior is 21.56% and 31.62% respectively and thus indicating, spiritual intelligence as more powerful predictor for development of eco friendly behavior that emotional intelligence.

### III. CONCLUSION

On the basis of above analysis and discussion it can be inferred that Emotional and spiritual intelligence are powerful predictor of eco friendly behavior and accounted for 53.14% variance in eco friendly behavior of students, if we want to save our planet earth than we have to reconstruct our present environmental education curriculum and some activities should be added to utilize and enhance both the intelligence. Human beings are rational creatures who have an innate need to rationalize all their actions and thoughts. Spirituality provides the rationale and make them sensitive towards other beings and nature, make able to realize that man is not the owner but the steward or trustee of God's creation, and thus by the use of both intelligence we can develop sensitiveness towards nature and morality can be sprouted in student and by that we can save our planet earth.

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