

# **A Study of Academic Achievement of Adolescents In Relation To Their Perception of Classroom Environment in Punjab**

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## **Abstract**

*The present study was undertaken to find out the "Academic Achievement of adolescents in relation to their Perception of Classroom Environment.". A sample of 200 adolescents (100 males and 100 females), from different Government and Private School of Ludhiana district of Punjab were selected. Classroom Environment scale by MOOS and Thickelt (1986) and Academic Achievement exam result of the students will be used for data collection. Results revealed that there exist a positive relationship between academic achievement and classroom environment among adolescents of schools of Ludhiana District. Finding also revealed that there is a significant relationship between academic achievement and a classroom environment among adolescents with respect to locale and gender. Finding shows that Academic Achievement of Urban Student is greater than that of rural Students and in the favour of male adolescents of urban school adolescent. Finding also shows that significant difference in the classroom environment of male and female adolescents with respect to locale. Finding also revealed that classroom environment is in the favour of urban female adolescents than their counter parts and male adolescents higher than that of female adolescents. Finding also revealed that Non significant relationship is found in the classroom environment of adolescents with respect to gender.*

## **Keywords:**

Academic Achievement, Adolescents, Classroom Environment

## **Introduction**

The importance of Education has increased several fields in the world's order where, science and technology are the bases for socioeconomic development and political empowerment. It is the quality of education that exhibits the any country's status in the world (Gupta 2002). This national goal can be achieved through academic achievement of the students in the campuses of educational institutions. The quality of academic achievement of schools has been a continuing national concern. Academic Achievement is a complex activity which occurs in former instructional settings (Driscoll, 2005).

The relationship between Achievement and School Management was studied by researchers like Bhattacharya (1997), Mishra. P. (2004), Taylor A Z (1996), Wentel (1991),

Verma and Kumar (1999), Anjana (2002), Dewan Sonia (1996), Bala Indu (2004) and Sharma J.P. (2007) shown that there is a positive correlation between Academic Achievement and School Classroom Environment and On the other side researchers like Kaur A (2001), Bennu (2002) shows that there is no significant corelation between Academic Achievement and achievement motivation of school students. Researchers have shown that positive correlation between Academic Achievement and: School Classroom Environment was studied by rare researchers but the studies are not enough to generalize anything regarding the relationship between Academic Achievement and Classroom Environment. So it was the reason that the investigator decided to study relationship of Academic Achievement and Classroom Environment.

## **Objectives**

1. To find the relationship between academic achievement and classroom environment among adolescents of schools of Ludhiana district.
  - To find the relationship between academic achievement and classroom environment among adolescents of schools of Ludhiana district with respect to locale.
  - To find the relationship between academic achievement and classroom environment among adolescents of schools of Ludhiana district with respect to gender.
2. To find the academic achievement of adolescents of schools of Ludhiana district.
  - To find the academic achievement of adolescents of schools of Ludhiana district with respect to locale.
  - To find the academic achievement of male adolescents of schools of Ludhiana district with respect to locale.
  - To find the academic achievement of female adolescents of schools of Ludhiana district with respect to locale.
  - To find the academic achievement of adolescents of schools of Ludhiana district with respect to gender.
3. To study the classroom environment of adolescents of schools of Ludhiana district.
  - To study the classroom environment of adolescents of schools of Ludhiana district with respect to locale.
  - To study the classroom environment of male adolescents of schools of Ludhiana district with respect to locale.
  - To study the classroom environment of female adolescents of schools of Ludhiana district with respect to locale.
  - To study the classroom environment of adolescents of schools of Ludhiana district with respect to gender.

## **HYPOTHESES**

1. There will be a significant relationship between academic achievement and classroom environment among adolescents of schools of Ludhiana district.
  - There will be a significant relationship between academic achievement and classroom environment among adolescents of schools of Ludhiana district with respect to locale.
  - There will be a significant relationship between academic achievement and classroom environment among adolescents of schools of Ludhiana district with respect to gender.
  
2. There will be a significant difference in the academic achievement of adolescents of schools of Ludhiana district.
  - There will be a significant difference in the academic achievement of adolescents of schools of Ludhiana district with respect to locale.
  - There will be a significant difference in the academic achievement of male adolescents of schools of Ludhiana district with respect to locale.
  - There will be a significant difference in the academic achievement of female adolescents of schools of Ludhiana district with respect to locale.
  - There will be a significant difference in the academic achievement of adolescents of schools of Ludhiana district with respect to gender.
  
3. There will be a significant difference in the classroom environment of adolescents of schools of Ludhiana district.
  - There will be a significant difference in the classroom environment of adolescents of schools of Ludhiana district with respect to locale.
  - There will be a significant difference in the classroom environment of male adolescents of schools of Ludhiana district with respect to locale.
  - There will be a significant difference in the classroom environment of female adolescents of schools of Ludhiana district with respect to locale.
  - There will be a significant difference in the classroom environment of adolescents of schools of Ludhiana district with respect to gender.

## **Sample of the Study**

A sample of 200 adolescents (100 male and 100 female) were randomly Selected from Private and Government schools of Ludhiana district of Punjab. Tools Used

1. The Academic Achievement exam result of the students will be taken.
2. Classroom Environment scale by MOOS and Thickett (1986).

### Statistical Techniques Used

1. t-ratio was calculated
2. Co-efficient of correlation r was also calculated.
3. Bar graph were plotted to have a pictorial view of the data.

### Delimitations of the Study

1. The present study was delimited to the Ludhiana district of Punjab.
2. In the present study, sample was comprised of 200 students.
3. It was delimited to boys and girls of 10+2 class.
4. It was delimited to Science and Arts students.

### Results and Discussion

**Table I Showing the Coefficient of correlation between Academic Achievement and classroom environment of adolescents of schools of Ludhiana district**

Sample	Correlation
N	r
200	.466

The entries in the table indicate coefficient of correlation between Academic Achievement and classroom environment is 0.466. Values in the above table depict that r is significant at both the levels of confidence i.e. 0.05 as well as 0.01 level. Hence hypothesis 1 there will be significant relationship between Academic Achievement and Classroom Environment among adolescents of schools of Ludhiana district stands accepted.

**Table II Showing the Coefficient of correlations between Academic Achievement and classroom environment of urban adolescents of schools of Ludhiana district**

Sample	Correlation
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N	r
100	0.713

The entries in the table indicate coefficient of correlation between Academic Achievement and classroom environment is 0.713. Values in the above table depict that r is significant at both levels of confidence i.e. 0.05 as well as 0.01. This indicates that Academic achievement is significantly related to classroom environment among urban adolescents of schools of Ludhiana district. Hence hypothesis 1(a) there will be significant relationship between Academic achievement and classroom environment among adolescents of schools of Ludhiana district with respect to locale stands accepted.

**Table III Showing the Coefficient of correlation between Academic Achievement and Classroom Environment of Rural adolescents of schools of Ludhiana district**

Sample	Correlation
N	r
100	0.357

The entries in the table indicate coefficient of correlation between Academic Achievement and Classroom Environment is 0.357. Values in the above table depict that r is significant at both levels of confidence i.e. 0.05 and 0.01. This indicates that Academic achievement is significantly related to classroom environment among rural adolescents of schools of Ludhiana district. Hence hypothesis 1 (a) There will be significant relationship between Academic achievement and classroom environment among adolescents of schools of Ludhiana district with respect to locale. Stands accepted.

**Table IV Showing the Coefficient of correlation between Academic Achievement and Classroom Environment of male adolescents of schools of Ludhiana district**

Sample	Correlation
N	r
100	0.295

The entries in the above table indicate coefficient of correlation between Academic Achievement and Classroom Environment is 0.295. Values in the above table depict that r is significant at both levels of confidence i.e. 0.05 and 0.01. This indicates that there is a significant relationship between Academic Achievement and classroom environment of male adolescents of schools of Ludhiana district. Hence hypothesis 1(b) "There will be significant

relationship between Academic achievement and classroom environment among adolescents of schools of Ludhiana district with respect to gender" Stands accepted.

**Table V Showing the Coefficient of correlation between Academic Achievement and Classroom Environment of Female adolescents of schools of Ludhiana district**

Sample	Correlation
N	r
100	0.295

The entries in the above table indicate coefficient of correlation between. Academic Achievement and classroom environment is 0.295. Values in the above table depict that r is significant at both levels of confidence i.e. 0.05 and 0.01. This indicates that Academic Achievement is significantly related to classroom environment among female adolescents of schools of Ludhiana district. Hence hypothesis 1(b) there will be significant relationship between Academic achievement and classroom environment among female adolescents of schools of Ludhiana district with respect to gender. Stands accepted

**Table VI Showing the Academic Achievement of adolescents of schools of Ludhiana district. Variable N Mean S.D.**

Variable	Mean	Mean	S.D
Academic Achievement	200	70.13	7.60

Table VI shows mean scores of Academic Achievement of adolescents of schools of Ludhiana district. Mean scores of Academic Achievement is 70.13 and S.D. is 7.60. The higher mean score of the Academic Achievement reveals that school students have high degree of Academic Achievement. This is due to increase in awareness and motivating attitude of students towards Academic Achievement.

**Table VII Showing the Academic Achievement among adolescents of Schools of Ludhiana district with respect to locale**

Group	N	Mean	S.D	S.ED	t-ratio
Academic Achievement (Rural)	100	66.17	7.12	0.965	8.21**
Academic Achievement (Urban)	100	74	10		

\*\*Significant at both the levels of confidence i.e. 0.05 and 0.01

The mean scores of Academic Achievement among rural adolescents are 66.17 and urban adolescents are 74.10. S.D. is 7.12 and 5.65 respectively. The t-ratio is 8.2 1 which is significant at both the levels of confidence i.e. 0.05 and 0.0 1. Further it is observed that mean scores of academic achievement are in the favour of urban adolescents. It may be due to the fact that urban adolescents are more aware of their career in comparison to rural adolescents. Hence hypothesis 2(a) "There will be a significant difference in the Academic Achievement of adolescents of schools of Ludhiana district with respect to locale." Stands accepted.

**Table VIII Showing the Academic Achievement among male adolescents of Schools of Ludhiana district with respect to locale**

Group	N	Mean	S.D	S.ED	t-ratio
Male (Urban)	50	73.71	6.48	1.43	4.80**
Male (Rural)	50	66.88	7.95		

\*\* Significant at both the levels of confidence i.e. 0.05 and 0.01 The mean scores of Academic Achievement among urban adolescents are 73.71 and rural adolescents are 66.88. S.D. is 6.48 and 7.95 respectively. The t-ratio is 4.80 which are significant at both levels of confidence i.e. 0.05 and 0.01. This shows that there exists a significant difference in Academic Achievement among male adolescents of schools of Ludhiana district with respect to locale. Hence hypothesis 2(b) "There will be a significant difference in the Academic Achievement of male adolescents of schools of Ludhiana district with respect to locale." Stands accepted.

**Table IX Showing the Academic Achievement among female adolescents of Schools of Ludhiana district with respect to locale**

Group	N	Mean	S.D	S.ED	t-ratio
Female (Urban)	50	74.48	4.89	1.133	7.95**
Female (Rural)	50	65.46	6.36		

\*\* Significant at both the levels of confidence i.e. 0.05 and 0.01 The mean scores of Academic Achievement among urban adolescents is 74.48 and rural is 65.46. S.D. is 4.89 and 6.36 respectively. The t-ratio is 7.95 which are significant at both levels of confidence i.e. 0.05 and 0.01.Hence hypothesis 2(c) "There will be a significant difference in the Academic Achievement of female adolescents of schools of Ludhiana district with respect to locale." Stands accepted.

**Table X Showing the Academic Achievement of adolescents of schools of Ludhiana district with respect to Gender**

Group	N	Mean	S.D	S.ED	t-ratio
Male	100	70.30	1.072	1.072	0.493NS
Female	100	69.98	7.24		

The mean scores of Academic Achievement among male adolescents of schools of Ludhiana district is 70.30 and female adolescents is 69.98. S.D is 7.94 and 7.24 respectively. The t-ratio is 0.493 which is significant at both levels of confidence i.e. 0.05 and 0.01. This shows that there exists a significant difference in Academic Achievement among adolescents of schools of Ludhiana district with respect to Gender. Hence hypothesis 2(d) 'There will be a significant difference in the Academic Achievement of adolescents of schools of Ludhiana district with respect to Gender.' Stands rejected.

**Table XI Showing the Classroom Environment among School adolescents of Ludhiana district**

Variable	N	Mean	S.D
Classroom Environment	200	64.03	15.18

Mean scores of Classroom Environment is 64.03 and S.D. is 15.18. The higher mean score of the Classroom Environment reveals that school students have high degree of Classroom Environment. This is due to increase in awareness and motivating attitude of students towards Classroom Environment.

**Table XII Showing the Classroom Environment among adolescents of Schools of Ludhiana district with respect to locale**

Group	N	Mean	S.D	S.ED	t-ratio
Classroom Environment (urban	100	63.20	13.01	1.76	5.67**
Classroom Environment (rural	100	53.13	11.94		

\*\*Significant at both the levels of confidence i.e. 0.05 and 0.01

The mean scores of Classroom Environment among urban adolescents are 63.20 and rural adolescents are 53.13. S.D. is 13.01 and 11.94 respectively. The t-ratio is 5.67 which is significant at both levels of confidence i.e. 0.05 and 0.01. Hence hypothesis 3(a) 'There will be a significant difference in the Classroom Environment of adolescents of schools of Ludhiana district with respect to locale.' Stands accepted.

**Table XIII Showing the Classroom Environment among male adolescents of Schools of Ludhiana district with respect to locale**

Group	N	Mean	S.D	S.ED	t-ratio
Male (Urban	50	73.71	6.34	1.44	4.75**
Classroom Environment (rural	50	66.89	7.95		

\*\* Significant at both the levels of confidence i.e. 0.05 and 0.01

The mean scores of Classroom Environment among urban adolescents is 73.71 and rural adolescents are 66.89. S.D. is 6.34 and 7.95 respectively. The t-ratio is 4.75 which are significant at both the levels of confidence i.e. 0.05 and 0.01. Hence hypothesis 3(b) "There will be a significant difference in the Classroom Environment of male adolescents of schools of Ludhiana district with respect to locale." Stands accepted.

**Table XIV Showing the Classroom Environment among female adolescents Schools of Ludhiana district with respect to locale**

Group	N	Mean	S.D	S.ED	t-ratio
Female (Urban)	50	75.52	7.04	2.016	3.76**
Classroom Environment (rural	50	51.90	12.40		

\*\* Significant at both the levels of confidence i.e. 0.05 and 0.01

The mean scores of Classroom Environment of urban adolescents are 75.52 and rural adolescents are 51.90. S.D. is 7.04 and 12.40 respectively. The t-ratio is 3.76 which are significant at both levels of confidence i.e. 0.05 and 0.01. Hence hypothesis 3(c) 'There will be a significant difference in the Classroom Environment of female adolescents of schools of Ludhiana district with respect to locale.' Stands accepted.

**Table XV Showing the Classroom Environment of adolescents of schools of Ludhiana district with respect to Gender**

Group	N	Mean	S.D	S.ED	t-ratio				
100	64.36	14.89	2.14	0.303NS	100	64.36	14.89	2.14	0.303NS
Classroom Environment (rural	50	63.71	15.41						

NS – Non Significant

The mean scores of Classroom Environment among male adolescents of schools of Ludhiana district is 64.36 and female adolescents is 63.71. S.D. is 14.89 and 15.41 respectively. The t-ratio is 0.303 which is non-significant at both the levels of confidence i.e. 0.05 and 0.01. This shows that there exists a significant difference in Classroom Environment among schools adolescents of Ludhiana district with respect to Gender. Hence hypothesis 3(d) "There will be a significant difference in the Classroom Environment of adolescents of schools of Ludhiana district with respect to Gender." Stands rejected.

### **Conclusion :**

It is thus concluded that present study revealed that there exist a positive relationship between academic achievement and classroom environment among adolescents of schools of Ludhiana District with respect to locale and gender. Scholars like Verma and Kumar (1999) , Bala Indu (2004), Ramana (1997) in their studies have recognized the positive relationship between academic achievement and classroom environment. Research also shows that Academic Achievement and classroom environment is in the favor of male adolescents than female adolescents and also Mean Score of Academic Achievement and classroom environment of Urban Student is greater than that of rural Students. Rangappa, K. T. (1995) also in their studies have supported this view that urban students' performance is greater than that of rural students. Research also shows that there is a significant difference in the classroom environment of male and female adolescents with respect to locale and gender. In short, we can say that urban student's academic achievement and class Room Environment are better as compare to rural students.

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