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## Comparison of knowledge of computer application in physical education students

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### Abstract

The main Purpose of the study is to find out the Comparison of Knowledge of Computer Application in Physical Education Students of Sant Gadge Baba Amravati University, Amravati and Chaudhary Ranbir Singh University, Jind. This study was hypothesized that significant difference would be found in the knowledge of computer application of Students. The sources of data were collected by students of physical education department from Sant Gadge Baba Amravati University, Amravati and Chaudhary Ranbir Singh University, Jind. The researcher had selected 60 students as subject (30 students of each university). The subjects were selected by using simple random sampling method. In this study the self-develop Questionnaire were used for data collection. The data were analyzed and interpreted by using statistical technique T-test and chi-square and the level of significance at 0.05 was adequate for testing the hypothesis.

**Conclusion:** Thus a significant difference appeared in the knowledge of computer application of Students of Sant Gadge Baba Amravati University, Amravati and Chaudhary Ranbir Singh University, Jind. The study also showed that the knowledge of computer application of Students from Sant Gadge Baba Amravati University, Amravati was appraisable then the Chaudhary Ranbir Singh University, Jind.

**Keywords:** Computer application, physical education, limited infrastructure

### Introduction

Today we live in a world in which everybody has to use new technologies. It is not an option but a must, and even more for the teachers. Who is supposed to have a close relationship with any innovation that occurs in his/ her specific field of work or in general areas that have a direct relation with them? The 21<sup>st</sup> century is the century of information. Nowadays, teaching is becoming one of the most challenging profession in India where knowledge is expanding rapidly and much of it is available to students as well teachers at anytime and anywhere. In recent years there has been a groundswell of interest in how computers and the interest can best be harnessed to improve the efficiency and effectiveness of physical education at all levels and both formal and non-formal settings. The use of computers and the internet is still in its infancy in developing countries, if these are used at all, due to limited infrastructure and the attendant high costs of access.

### Methodology

The sources of data were collected by students of physical education department from Sant Gadge Baba Amravati University, Amravati and Chaudhary Ranbir Singh University, Jind. The researcher had selected 60 students as subject (30 students of each university). The subjects were selected by using simple random sampling method. In this study the self-develop Questionnaire were used for data collection.

### Analysis of the data

The data were analyzed and interpreted by using statistical technique T-test and chi-square and the level of significance at 0.05 was adequate for testing the hypothesis.

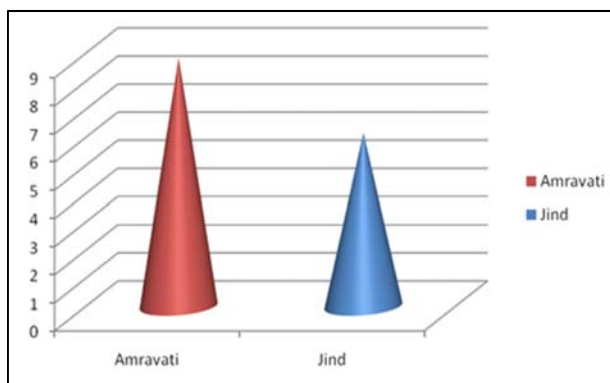
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**Table 1:** Showing Comparison of Knowledge of Computer Application between M.P.Ed. Students of Sant Gadge Baba Amravati University and Chaudhary Ranbir Singh University, Jind.

Group	Mean	S.D	M.D	D.F.	O.T.	T.T
Amravati	8.83	1.57	2.66	58	6.54	2.00
Jind	6.16	1.57				

Level of Significance = 0.05, Tabulated 't' 0.05 (58) = 2.00.

The mean value of Amravati University is 8.83 as shown in the table and the mean value of Jind University is 6.16 and the difference is 2.66. The S.D. value of Amravati University and Jind University are same and that is 1.57. After this the collected data was analyzed by using 't' test. Also the tabulated 't' was drawn at level of significance 0.05 and at degree of freedom 58. In the above table the value of calculated 't' was greater than tabulated 't', hence the significant difference would be found in the knowledge of computer application among the students of Sant Gadge Baba Amravati University and Chaudhary Ranbir Singh University, Jind.



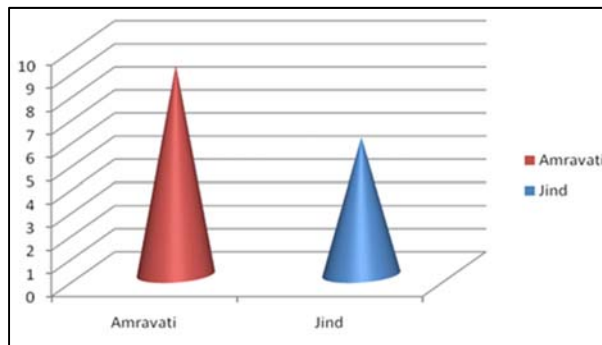
**Graph 1:** Graphical Representation of Mean difference of Knowledge of Computer Application between M.P.Ed. Students of Amravati University and Jind University

**Table 2:** Showing Comparison of Interest towards Computer Application between M.P.Ed. Students of Sant Gadge Baba Amravati University and Chaudhary Ranbir Singh University, Jind.

Group	Mean	S.D	M.D	D.F.	O.T.	T.T
Amravati	9.06	2.51	3.13	58	4.81	2.00
Jind	5.93	2.51				

Level of Significance = 0.05 Tabulated 't' 0.05 (58) = 2.00.

The mean value of Amravati University is 9.06 as shown in the table and the mean value of Jind University is 5.93 and their mean difference is 3.13. The S.D. value of Amravati University and Jind University are same and that is 2.51. After this the collected data was analyzed by using 't' test. Also the tabulated 't' was drawn at level of significance 0.05 and at degree of freedom 58. In the above table the value of calculated 't' was greater than tabulated 't', Hence the interest of the students of Sant Gadge Baba Amravati University, Amravati towards the knowledge of computer application is more than the students of Chaudhary Ranbir Singh University, Jind.



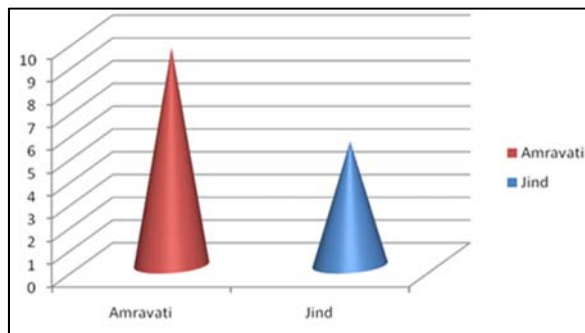
**Graph 2:** Graphical Representation of Mean difference of Interest towards Computer Application between M.P.Ed. Students of Amravati University and Jind University

**Table 3:** Showing Comparison of Satisfaction towards Computer Application between M.P.Ed. Students of Sant Gadge Baba Amravati University and Chaudhary Ranbir Singh University, Jind.

Group	Mean	S.D	M.D	D.F.	O.T.	T.T
Amravati	9.56	1.94	4.13	58	8.24	2.00
Jind	5.43	1.94				

Level of Significance = 0.05, Tabulated 't' 0.05 (58) = 2.00.

The mean value of Amravati University is 9.56 as shown in the table and the mean value of Jind University is 5.43 and their mean difference is 4.13. The S.D. value of Amravati University and Jind University are same and that is 1.94. After this the collected data was analyzed by using 't' test. Also the tabulated 't' was drawn at level of significance 0.05 and at degree of freedom 58. In the above table the value of calculated 't' was greater than tabulated 't', Hence the students of Sant Gadge Baba Amravati University, Amravati are more satisfied the knowledge of computer application than the students of Chaudhary Ranbir Singh University, Jind.



**Graph 3:** Graphical Representation of Mean difference of Satisfaction Towards Computer Application between M.P.Ed. Students of Amravati University and Jind University

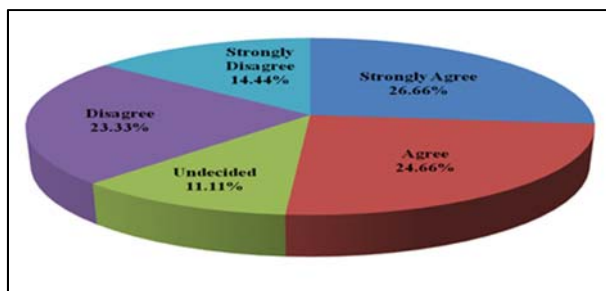
**Table 4:** Showing Views about Computer Application of Sant Gadge Baba Amravati University, Amravati Students.

	S.A	A	U	D.A	S.D
Fo	26.66	24.66	11.11	23.33	14.44
Fe	20	20	20	20	20
Fo-fe	6.66	4.66	-8.89	3.33	-5.56
(Fo-fe) <sup>2</sup>	44.35	21.71	79.03	11.08	30.91
(Fo-fe) <sup>2</sup> /fe	2.21	1.08	3.95	0.55	1.54

Level of significance = 0.05, Chi-square =  $\sum \{(fo-fe)^2/fe\}$   
 Chi-square = 2.21 + 1.08 + 3.95 + 0.55 + 1.54, Chi-square = 9.33.

From the above table it is observed that the frequency observed for Strongly Agree is 26.66, for Agree it is 24.66, for Undecided it is 11.11, for Disagree it is 23.33, and for Strongly Disagree it is 14.44. Near about 51.32% students have good views about the knowledge of computer application that it is used in different applied fields where as about 37.77% students are those who believed that the knowledge of computer application is not as beneficial as it is. After that the researcher uses a statistical technique ‘chi-square’ for the justification of the collected data.

The  $\chi^2$  for above given statement is 9.33. The table value of  $\chi^2$  at 4 degree of freedom and 0.05 level of significance is 9.49. Because the obtained  $\chi^2$  is less than the table value of  $\chi^2$ , it is concluded that the views of the students about computer knowledge are not significant.



**Graph 4:** Graphical Representation of the Views about Computer Application of Sant Gadge Baba Amravati University, Amravati Students.

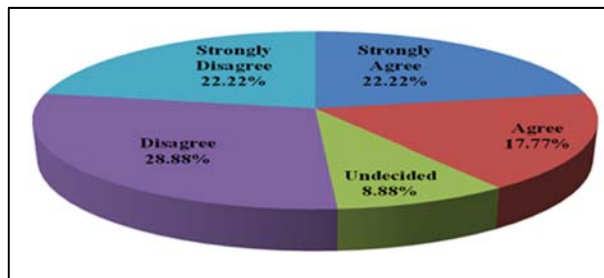
**Table 5:** Showing Views about Computer Application of Chaudhary Ranbir Singh University, Jind Students.

	S.A	A	U	D.A	S.D
Fo	22.22	17.77	8.88	28.88	22.22
Fe	20	20	20	20	20
Fo-fe	2.20	-2.23	-11.12	8.88	2.22
(Fo-fe) <sup>2</sup>	4.92	4.97	123.65	78.85	4.92
(Fo-fe) <sup>2</sup> /fe	0.24	0.24	6.18	3.94	0.24

Level of significance = 0.05, Chi-square =  $\sum \{(fo-fe)^2/fe\}$   
 Chi-square = 0.24 + 0.24 + 6.18 + 3.94 + 0.24, Chi-square = 10.84.

From the above table it is observed that the frequency observed for Strongly Agree is 22.22, for Agree it is 17.77, for Undecided it is 8.88, for Disagree it is 28.88, and for Strongly Disagree it is 22.22. Near about 39.99% students have good views about the knowledge of computer application that it is used in different applied fields where as about 51.1% students are those who believed that the knowledge of computer application is not as beneficial as it is. After that the researcher uses a statistical technique ‘chi-square’ for the justification of the collected data.

The  $\chi^2$  for above given statement is 10.84. The table value of  $\chi^2$  at 4 degree of freedom and 0.05 level of significance is 9.49. Because the obtained  $\chi^2$  is greater than the table value of  $\chi^2$ , it is concluded that the views of the students about computer knowledge are significant.



**Graph 5:** Graphical Representation of the Views about Computer Application of Chaudhary Ranbir Singh University, Jind Students.

**Conclusion**

On the basis of the result drawn with the mentioned methodology the following conclusion were sougthed out. There is found significant difference of knowledge of computer application among the students of Sant Gadge Baba Amravati University, Amravati than those of Chaudhary Ranbir Singh University, Jind. Also the interest and satisfaction of the students of Sant Gadge Baba Amravati University, Amravati are more than those of Chaudhary Ranbir Singh University, Jind. But on the other hand, after the analysis of the collected data it is concluded that the views of knowledge of computer application are good in the students of Chaudhary Ranbir Singh University, Jind than those of Sant Gadge Baba Amravati University, Amravati.

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