CHAPTER VI

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6.0.0.0 Summary:

In the introductory chapter of the thesis, the importance and new opening of the study has been discussed. The problem of the study, objectives, definitions and concepts, limitations, null hypothesis and scheme of chapterization have been reported in greater detail.

In chapter II the review of the available related studies have been discussed with reference to their essential points. The reviews of the related studies are discussed to reveal how it helped the researcher in getting the information regarding the use of computer in education samples and techniques of the study.

The Methodology content of the study is presented in chapter : III. The concept of traditional teaching Method, the application of computer technology in the field of education overview of powerpoint presentation and it’s application are discussed in detail. Moreover the selection of grammar points and the construction of instructional objectives are discussed in view of the Methodology content.

In the next chapter : IV, the researcher was described the planning and procedure of the research. In this chapter, the concept of population sampling procedures and tools of the study are discussed. The construction of Computer based powerpoint programms and the construction of achievement test both are discussed in detail with the used statistical Methods.
In the fifth Chapter the researcher has attempted to study the effectiveness of computer based powerpoint programmes with some variables. Those studies are reported by interpreting the results in the form of statistical techniques like F-Test and T-test. In this chapter summary, conclusions and suggestions to the further researches are noted.

6.1.0.0 Conclusions

The conclusions that are drawn from the study are categorized into two headings:

1. ‘F’ test conclusions and the conclusions of related studies
2. ‘T’ test conclusions

‘F’ test Conclusions and the Conclusions of Related Studies:

The study was carried out on the sample of 1200.

1. The obtained ‘F’ value of the main effect of Area was 108.60, which far exceeds the Table value of ‘F’ at both the levels of significance.

   The obtained mean of East Area is found greater than the West and Coat Area, while the mean of Coat Area is found lower in comparison to the West and East Area.

   Hence, it could be concluded that Area has its main effect on teaching of English Grammar.

2. The obtained ‘F’ value of the main effect of Method was 1378.30, which far exceeds the Table Value of ‘F’ at both the level of significance.

   The obtained mean difference between the traditional and
computer based Method is 6.33 which is in favour of Computer based Method.

Hence it could be concluded that Method has its main effect on teaching of English Grammar.


3. The obtained ‘F’ value of the main effect of Sex was 12.50 which was lower than the Table value of ‘F’ at 0.05 to 0.01 level of significance with df 1 and 1188.

The obtained means of boys and girls do not possess remarkable difference.

Hence, it could be concluded that main effect of Sex does not imply on teaching of English Grammar.


4. The obtained ‘F’ value of the interaction effect of Area and Method was 0.32 which is lower than the Table value of ‘F’ at 0.05 to 0.01 level of significance.

The obtained mean of computer based Method in East Area

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(74.15) is found higher and the mean of traditional Method in coat Area (71.17) is found lower. The difference between the means of traditional and computer based Method in all the three Areas are not negligible.

Hence, it could be concluded that Area when interacted with Method did not have significant effect on teaching of English Grammar.

5. The obtained ‘F’ value of the interaction effect of Method and Sex was 1.15 which is lower than the Table value of ‘F’ at both the level of significance.

The Obtained means of Boys and Girls of both the Method possess minor difference.

Hence, it could be concluded Method when interacted with Sex did not have significant effect on teaching of English grammar.

6. The obtained ‘F’ value of the interaction effect of Area and Sex was 1.34. Which is lower than the Table value of ‘F’ at both the level of significance.

The obtained means of Boys and Girls in all the three Areas are negligible.

Hence, it could be concluded that Area when interacted with Sex did not have significant effect on teaching of English Grammar.

7. The obtained ‘F’ value of the interaction effect of Area, Method
and Sex was 801.08 which is much more than the table value of ‘F’ at both the level of significance.

The obtained mean of West Area : Girls : Computer based Method is found greater than the mean of other Area and Sex. The means of all the three Area : Girls : Computer based Method possess negligible difference. The mean of East Area : Computer based Method : Girls : is found greater than the mean of same Method -Boys : as well as Traditional Method : Boys and Girls. The Sexwise mean of both the method possess minor difference. The same condition is found in both the other Area. But the Sexwise mean of Computer based Method is found possessing major difference in comparison to the Traditional Method.

Hence, it can be concluded that Method effects on teaching of English Grammar and the Computer based Method is more favorable in all the three Area particularly in Girls.

‘T’ test conclusions :

The study was carried out on the sample of 1200. The researcher has efforted to discuss these conclusions into two categories.

(1) Significant

(2) Not Significant
1. The obtained ‘t’ value was 8.052 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the students of West and Coat Area. (Ho$_2$)

2. The obtained ‘t’-value was 9.275 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the students of Coat and East Area. (Ho$_3$)

3. The obtained ‘t’-value was 34.066 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Traditional and Computer based Method. (Ho$_4$)

The obtained ‘t’ -value was 1.023 which is not significant at both the level. Hence, it could be concluded that there is no significant mean difference between the students of East and West Area. (Ho$_1$)

The obtained ‘t’-value was 2.341 which is not significant at 0.01 level. Hence, it could be concluded that the mean difference between the Boys and Girls is not significant at 0.01 level. (Ho$_5$)

The obtained ‘t’ value of Traditional Method: East Area and West Area was 1.14 which is not significant at both the level. Hence, it could be concluded that there is no significant mean difference between the East and West Area of Traditional Method. (Ho$_6$)

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4. The obtained ‘t’-value was 2.341 which is significant at 0.05 level. Hence, it could be concluded that the mean difference between the Boys and Girls is significant at 0.05 level. (Ho₃)

5. The obtained ‘t’ value of East Area : Traditional and Computer based Method was 21.13 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Traditional Method and Computer based Method of East Area. (Ho₆)

6. The obtained ‘t’ value of West Area : Traditional and Computer based Method was 20.08 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Traditional Method and Computer based Method of West Area. (Ho₇)

The obtained ‘t’ value of Computer based Method : East Area and West Area was 0.85 which is not significant at both the level. Hence, it could be concluded that there is no significant mean difference between the East and West Area of Computer based Method. (Ho₁₂)

The obtained ‘t’ value of Traditional Method : Boys and Girls was 1.51 which is not significant at both the level. Hence, it could be concluded that there is no significant mean difference between the Boys and Girls of Traditional Method. (Ho₁₃)

The obtained ‘t’ value of East Area: Boys and Girls was 0.53 which is not significant at both the level. Hence, it could be concluded that there is no significant mean difference between the Boys and Girls of East Area. (Ho₁₉)

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7. The obtained ‘t’ value of Coat Area: Traditional and Computer based Method was 22.97 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Traditional Method and Computer based Method of Coat Area. (Ho_8)

8. The obtained ‘t’ value of Traditional Method: West Area and Coat Area was 8.28 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the West and Coat Area of Traditional Method (Ho_{10})

9. The obtained ‘t’ value of Traditional Method: Coat Area and East Area was 9.92 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Coat and East Area of Traditional Method. (Ho_{11})

The obtained ‘t’ value of West Area: Boys and Girls was 1.56 which is not significant at both the level. Hence, it could be concluded that there is no significant difference between the Boys and Girls of West Area. (Ho_{20})

The obtained ‘t’ value of Coat Area: Boys and Girls was 2.07 which is not significant at 0.01 Hence, it could be concluded that the mean difference between the Boys and Girls of Coat area is not significant at 0.01 level. (Ho_{21})

The obtained ‘t’ value of East and West Area: Boys was 1.23 which is not significant at both the level. Hence, it could be concluded that there is no significant mean difference between East and West Area: Boys (Ho_{22})
10. The obtained 't' value of Computer based Method : West Area and Coat Area was 8.45 which is significant at both the level. Hence, it could be concluded that, there is significant mean difference between West and Coat Area of Computer based Method (Ho_{13}).

11. The obtained 't' value of Computer based Method : Coat Area and East Area was 9.59 which is significant at both the level. Hence, it could be concluded that, there is significant mean difference between Coat and East Area of Computer based Method. (Ho_{14})

12. The obtained 't' value of Computer based Method : Boys and Girls was 3.22 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Boys and Girls of Computer based Method. (Ho_{16})

The obtained 't' value of East Area : Girls was 0.16 which is not significant at both the level. Hence, it could be concluded that there is no significant mean difference between the East and West Area : Girl. (Ho_{25})

The obtained 't' value of East Area : Traditional Method : Boys and Girls was 0.82 which is not significant at both the level. Hence, it could be concluded that there is no significant mean difference between the Boys and Girls of East Area : Traditional Method. (Ho_{28})

The obtained 't' value of West Area : Traditional Method : Boys and Girls was 0.47 which is not significant at both the level. Hence, it could be concluded that there is no significant mean difference between the Boys and Girls of West Area : Traditional Method. (Ho_{29})
13. The obtained ‘t’ value of Boys: Traditional Method and Computer based Method was 22.30 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Traditional Method and Computer based Method of Boys. (H₀₁)

14. The obtained ‘t’ value of Girls: Traditional Method and Computer based Method was 22.18 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Traditional Method and Computer based Method of Girls. (H₀₁₁)

15. The obtained ‘t’ value of Coat Area: Boys and Girls was 1.69 which is not significant at both the level. Hence, it could be concluded that there is no significant mean difference between the Boys and Girls of Coat Area: Traditional Method. (H₀₃₀)

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16. The obtained ‘t’ value of West and Coat Area: Boys was 5.94 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the West and Coat Area: Boys. (H₀²₃)

17. The obtained ‘t’ value of Coat and East Area: Boys was 7.24 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Coat and East Area: Boys. (H₀²₄)

18. The obtained ‘t’ value of West and Coat Area: Girls was 5.49 which is significant at both the level. Hence, it could be concluded that there is no significant mean difference between the West and Coat Area: Girls. (H₀²₆)

The obtained ‘t’ value of East and West Area: Traditional Method: Girls was 0.97 which is not significant at both the level. Hence, it could be concluded that there is no significant mean difference between the East and West Area: Traditional Method Girls: (H₀₄₃)

The obtained ‘t’ value of East and West Area: Computer based Method: Boys was 1.89 which is not significant at both the level. Hence, it could be concluded that there is no significant mean difference between the East and West Area: Computer based Method: Boys. (H₀₄₆)

The obtained ‘t’ value of East and West Area: Computer based Method: Girls was 0.89 which is significant at both the level. Hence, it could be concluded that there is no significant mean difference between the East and West Area: Computer based Method: Girls. (H₀₄₉)
19. The obtained ‘t’ value of Coat and West Area : Girls was 5.87 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Coat and East Area: Girls. (Ho$_{27}$)

20. The obtained ‘t’ value of West Area : Computer based Method: Boys and Girls was 2.97 at both the level which is the significant at both the level. Hence, it could be concluded that there is significant mean difference between the Boys and Girls of West Area : Computer based Method. (Ho$_{32}$)

21. The obtained ‘t’ value of Coat Area : Computer based Method: Boys and Girls was 2.79 which is the significant at both the level. Hence, it could be concluded that there is significant mean difference between the Boys and Girls of Coat Area : Computer based Method. (Ho$_{33}$)
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22. The obtained ‘t’ value of Traditional and Computer based Method of East Area : Boys was 14.97 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Traditional and Computer based Method of East Area : Boys. (H₀₃₄)

23. The obtained ‘t’ value of Traditional and Computer based Method of West Area : Boys was 12.49 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Traditional and Computer based Method of West Area : Boys. (H₀₃₅)

24. The obtained ‘t’ value of Traditional and Computer based Method of Coat Area : Boys was 14.91 which is significant at both the level. Hence, it could be concluded that there is significant mean difference
between the Traditional and Computer based Method of Coat Area : Boys. (H₀₆)

25. The obtained ‘t’ value of Traditional and Computer based Method of East Area : Girls was 14.86 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Traditional and Computer based Method of East Area : Girls. (H₀₇)

26. The obtained ‘t’ value of Traditional and Computer based Method of West Area : Girls was 16.38 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Traditional and Computer based Method of West Area : Girls. (H₀₈)

27. The obtained ‘t’ value of Traditional and Computer based Method : Coat Area : Girls was 18.22 which is significant at
both the level. Hence, it could be concluded that there is significant mean difference between the Traditional and Computer based Method of Coat Area : Girls. (Ho₃₉)

28. The obtained ‘t’ value of West and Coat Area : Traditional Method : Boys was 6.22 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the West and Coat Area : Traditional Method : Boys. (Ho₄₁)

29. The obtained ‘t’ value of Coat and East Area : Traditional Method : Boys was 7.15 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Coat and East Area : Traditional Method : Boys. (Ho₄₂)

30. The obtained ‘t’ value of Traditional and Computer. Based Method of West and Coat Area : Girls was 5.48 which is
significant at both the level. Hence, it could be concluded that there is significant mean difference between the West and Coat Area Traditional Method: Girls ($H_{04}$).

31. The obtained ‘$t$’ value of Coat and East Area: Traditional Method: Girls was 6.90 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Coat and East Area: Traditional Method: Girls. ($H_{05}$)

32. The obtained ‘$t$’ value of West and Coat Area: Computer based Method: Boys was 3.15 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the West and Coat Area: Computer based Method: Boys. ($H_{06}$)

33. The obtained ‘$t$’ value of Coat and East Area: Boys was 7.78 which is significant at both the level. Hence, it could be
concluded that there is significant mean difference between the Coat and East Area Computer based Method: Boys. (Ho_{48})

34. The obtained ‘t’ value of West and Coat Area: Computer based Method: Girls was 7.01 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the West and Coat Area: Computer based Method: Girls. (Ho_{50})

35. The obtained ‘t’ value of Coat and East Area: Computer based Method: Girls was 5.81 which is significant at both the level. Hence, it could be concluded that there is significant mean difference between the Coat and East Area: Computer based Method: Girls. (Ho_{51})
6.2.0.0 Future Researches:

A research is hardly ever complete in itself. There is always a scope for doing some further studies on it. A number of points, doubts and difficulties that were faced by the researcher during the long process of research has enabled her to suggest some problems for further research in this Area. They are as under:-

1. A Comparative study of Programmed Learning and Computer Assisted learning in English (as well as other subjects).
2. Effectiveness of the simulation model of teaching through Computer based Powerpoint Programms.
4. Use of Computer Multimedia Programme in learning English (as well as other subjects) in relation to student’s personality traits.
5. Relative effectiveness among different strategies of computer Multimedia presentation in Reading and learning of English (as well as other subjects) at Higher Secondary stage.

6.3.0.0. Experiences of the Researcher:

The researcher would like to present a few words of experiences about the present research. This opportunity ‘to contribute something in the field of Education’ has become a great gift of Goddess Saraswati to the researcher. The researcher has tried her best efforts for this present research work.
The researcher has experienced good co-operation of the human working in the field of Education. The researcher felt herself to be lucky to receive a heartily welcome and positive responses from the different school authorities of different areas as well as students. The researcher experienced that if the technology of 21st century would be applied for education, the future of India would be definitely bright. The country would shine with the advance use of science and technology all over the world.

If the students would be motivated to do their best they could achieve almost everything for their progress. The only condition is that we should not leave our constant efforts. To uplift our students' lives with the utmost courage, strength and information should not be left behind us.

Concluding this, the researcher would like to pray Goddess Saraswati "To remove the darkness from our life and always help us in our good deeds."