



## Effectiveness of Cd Based Courseware for Learning English Grammar at Upper Primary Level

### KEYWORDS

Courseware, grammar and Upper primary

**A. John Kennedy Alexander**

Research Scholar, Alagappa University, Karaikudi.,  
Assistant Elementary Education Officer, T.Vadipatti,  
Madurai District.

**Dr. A. Edward William Benjamin**

Associate Professor, Department of Education,  
Bharathidasan University, Trichy.

**ABSTRACT** *The world is undergoing numerous transformations due to rapid development and diffusion of information and communication technologies (ICT) in all walks of life. ICT is a medium of teaching and learning an assisting tool for making assignments, collecting data and documentation communicating and conducting research. It has opened new avenues like on-line learning, e-learning, virtual learning etc. This piece of research work is an attempt to verify scientifically on the effectiveness of CD based courseware in learning English grammar at the Upper Primary level. In order to proceed the study, the researcher has used the experimental design. The study has chosen 40 students of Class VIII from two Panchayat Union Middle Schools through stratified random sampling technique. By applying the descriptive and differential analysis techniques, the framed hypotheses were proved to be effective. This study had strongly proved that Courseware in English grammar was effective at the Upper Primary School level.*

### Introduction:

Instructional Courseware can be defined as "software developed for the purpose of providing instruction" (Gibbs, Graves & Bernas, 2001). The term 'Courseware' was introduced by SCORES! Educational Centers, the pioneer developer that coined the term by combining the words 'Course' and 'Software'. It was originally used to term any computerized packages of teaching-learning material that instructor could supplement to the main lessons. Advancement in technology and communication has made teaching and learning possible anywhere, any time. So it is an appropriate attempt to justify this kind of learning styles does on par with equalization or not. It is believed that by using CD based coursewares, teachers will have resources that are tailored to their needs. Since the teaching courseware is something novel, it requires that teachers invest time and energy in first acquainting themselves to new technology and then to see to the compatibility this technology supplement to curriculum and syllabus needs.

### Objectives of the study:

The aim of the study is to find out the effectiveness of CD based courseware for learning English grammar at Upper Primary level.

- To find out the significant difference, if any between the pre and post test mean scores in the experimental group in learning English grammar at Upper Primary School level.
- To find out the significant difference, if any between the pre and post test mean scores in learning English grammar at the Upper Primary school level in the control group.

### Hypothesis of the study:

- 1) There is no significant difference between the Post-test mean scores of the experimental and control groups in learning English grammar through CD based Courseware and Conventional method .
- 2) There is no significant difference between the Post-test means score and the Pre-test means score of the experimental group in learning English grammar through CD based Courseware and Conventional method ..
- 3) There is no significant difference between the Post-test means score and the Pre-test means score of the control group in learning English grammar through CD based Courseware and Conventional method .

### Methodology of the study:

Experimental design is used to conduct the present study. Pre-test Post-test control groups design was used. The control group was taken as the reference with which experimental group is compared. The control group was taught through the conventional methods and the experimental group was exposed to the CD based courseware for learning English grammar.

### SAMPLE OF THE STUDY

The investigator has chosen VIII standard students of Panchayat Union Middle (Upper Primary) Schools at A.Pudupatti and Kuravankulam in Madurai district for the investigation. The investigator has selected 20 students each by stratified random sampling technique from the 2 Upper Primary Schools based on their scores in the performance test conducted by the investigator himself and formed the equated groups for the comparison.

### Research tools:

The following tools are used in the present study  
CD based Courseware in English grammar.  
Achievement test.

### Statistical techniques used:

Differential analysis (t-Test) to find out the significant difference between the variables.

### Analysis and Interpretation of data:

There is no significant difference between the Post-test mean scores of the Experimental and Control groups in learning English grammar through CD based Courseware and Conventional method .

**Table – 1**

Variable	Test	N	M	SD	Mean difference	T value	Df	Level of significance (0.01)
Experimental group	E post test	20	60.15	10.25	12.05	3.54	19	0.01
Control Group	E post test	20	48.10	11.15				

From table-1, it is found that the 't' value 3.54 for the Mean difference 12.05 at 0.01 level of significance is greater than the critical 't' value 2.86. Hence, the Null hypothesis is rejected. And it is concluded that there exists a significant difference between the Post test mean scores of the experimental and control groups in learning English grammar through CD Based Courseware and Conventional method.

There is no significant difference between the Post-test mean score and the Pre-test mean score of the Experimental group in learning English grammar through CD based Course ware .

Table - 2

Variable	Test	N	M	SD	Mean difference	T value	Df	Level of significance (0.01)
Experimental group	E post test	20	60.15	10.25	13.70	4.05	19	0.01
	E pre test	20	46.45	11.13				

From table-2, it is found that the 't' value 4.05 for the Mean difference 13.70 at 0.01 level of significance is greater than the critical 't' value 2.86. Hence, the Null hypothesis is rejected. and it is concluded that there exists a significant difference between the Post test and Pre test mean scores of the experimental group in learning English grammar through CD Based Courseware.

3) There is no significant difference between the Post-test means score and the Pre-test means score of the Control group.

Table -3

Variable	Test	N	M	SD	Mean difference	T value	Df	Level of significance (0.01)
Control group	E post test	20	48.10	11.15	1.65	0.469	19	NS
	E pre test	20	46.45	11.13				

From table-3, it is found that the 't' value 0.469 for the Mean difference 1.65 at 0.01 level of significance is less than the critical 't' value 2.86. Hence, the Null hypothesis is accepted. And it is concluded that there is no significant difference between the Post test and Pre test mean scores of the Control group in learning English grammar through conventional method.

**Findings of the study:**

- It is found that there is a significant difference between the Post-test mean scores of the experimental and con-

trol groups in learning English grammar through CD based courseware at the Upper primary level.

- It is also found that there is a significant difference between the Post-test mean scores and the Pre-test mean scores of the experimental group in learning English grammar through CD based courseware at the Upper primary level.
- It is also found that there is no significant difference between the Post-test mean scores and the Pre-test mean scores of the control group in learning English grammar through Conventional method at the Upper primary level.

**Educational Implications:**

On the basis of the qualitative analysis of the data, the educational implication have been evolved here under

- The CD Based Courseware is found to be effective and so this Courseware can be used to help students strengthen their ideas in English grammar.
- The results of the study have paved that CD Based Courseware in English grammar are more effective than the conventional method; it is suggested to utilize this technological innovation in teaching - learning process of English grammar at the Upper Primary level.
- Since the use of CD Based Courseware enhances the retention of the students, it would help them to score high marks in English grammar.
- Since the use of CD Based Courseware enhanced the achievement, they will diminish wastage and stagnations caused by English in Upper primary schools.
- Teachers of Primary and Upper primary schools can be given orientation to develop CD Based Courseware so that they can adopt new technology to teach English grammar at the Upper primary level and other levels too.

**Conclusion:**

In this study, the investigator has tried to find out the effectiveness of CD based courseware in learning English grammar at the Upper primary level. As the study has proved that the CD based courseware prepared by the investigator has considerably increased the performance level of the Upper primary students in learning English grammar. The Post-test scores of the experimental group has proved the effectiveness of the courseware scientifically such that CD based coursewares can be used in the Upper primary class rooms for learning English grammar effectively.

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