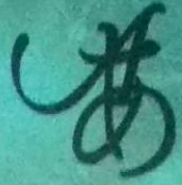




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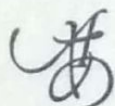
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## 15. Evaluation of Computer Assessed Learning Module for the Topographical Map Interpretation Skill

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### Abstract

Teaching and learning is one of the processes of education system in all over the world. Various teaching and learning methods are implemented in education system like lecture method, discussion method, seminar method, tutorial method etc. by teachers, professors and persons who is working in education and research fields. ICT (Information and Communication Technology) have been using in teaching-learning process since two to three decades. Computer and various software are used in teaching to provide information and knowledge effectively for students. James Kulik (1994) used research technique called meta-analysis to aggregate the findings from more than 500 individuals research studies of computer-based instruction. Computer-assisted Learning software seems to be a promising option for undergraduates, as it not only provides them in-depth knowledge to visualize live experiments on a computer screen but also helps them to self-assess their acquired knowledge through a series of multiple choice questions (Govindaraja C, et al, 2011). In the present study, Computer-assisted Learning Module is used for the geography subject. We found that Computer Assisted Learning Module is effective method which increases the skills of Topographical map interpretation.

**Keywords:** Teaching, learning, Computer Assisted Learning Module, Topographical Map.

### 1. Introduction

Computer-assisted Learning software seems to be a promising option for undergraduates, as it not only provides them in-depth knowledge to visualize live experiments on a computer screen but also helps them to self-assess their acquired knowledge through a series of multiple choice questions (Govindaraja C, et al, 2011). Geography is description and distributional study



of the earth. In modern time, geography means not only the study the physical and human components but also to study the interrelationship of physical and manmade factors with scientific manner. We can study the physical and manmade factor easily with the help of topographical maps. Map is soul of geography because 90% geography is studied with the help of maps. Map is the important tool to study the distribution of various factors like relief, drainage pattern, soil, minerals, population etc. It is also used in decision making. Today, we can study and analyzed the topographical maps easily in short period with the help of Geographical Information System (GIS). Interpretation and reading of topographical maps are important skills in geography. In the present research study, researcher issued computer assisted learning module to check the effectiveness in interpretation of topographical map.

## **2. Hypothesis**

### **1. Alternative Hypothesis**

Computer Assisted Learning Module will increase the interpretation skills of Topographical map.

### **2. Null Hypothesis**

Computer Assisted Learning Module will not increase the interpretation skills of Topographical map.

### **3. Objectives**

1. To find out the achievement level about topographical map interpretation skill of the student.
2. To make Computer Assisted Learning Module to increase interpretation skills of the topographical map.
3. To check the effectiveness of Computer Assisted Learning Module in interpretation skill while reading topographical map.

### **4. Methodology**

Computer Assisted Learning Module is framed for Geography students of FYBSc Class for the subject interpretation of topographical map. Research methodology is a way to systematically solve the above research problem.

#### **1. Population**

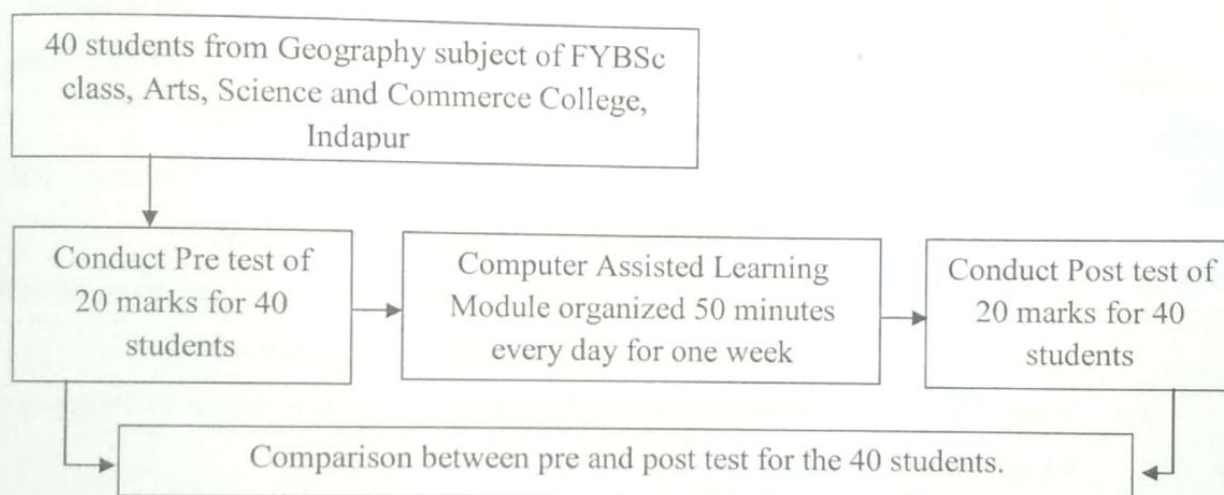
Students who are studied in Savitribai Phule Pune University, Pune are selected as a population for the present study.

## 2. Sample

For the present study, 40 students from Geography subject at FYBSC class Arts, Science and Commerce College, Indapur selected as samples by purposive sampling method.

3. Qualitative and quantitative data of research is collected by different tools like observations, interview, questionnaire, psychological tests etc. Achievement test is one of the psychological tests, which is selected in present study. Achievement test was produced to check the level of the students for topographical map reading skill.
4. Statistical tools are selected in the present study like mean, standard deviation, correlation and student 't' test to analyze the data.

## 5. Research Procedure



## 6. Result and Analysis

Following table is showing quantitative data which is collected from the pre and post tests.

Table no. 1 : Statistical information for 't' test

Sr. No.	Particulars	Pre test	Post test
1	Number of Students	40	40
2	Mean	8.2	13.1
3	Mean Difference	4.9	
4	Standard Deviation	2.11	2.83
5	Coefficient of Correlation	0.29	
6	Standard error of mean	0.33	0.44
7	Standard error of mean difference	0.22	
8	Level of Significance	0.01	
9	Degree of Freedom	39	



10	Calculated 't'	22.47
11	Tabulated 't'	2.74

**Note: Computed by researcher**

#### **'t' test analysis**

From the above table we observed that the calculated 't' value is greater than tabulated 't' value. So that the null hypothesis of the present study is that Computer Assisted Learning Module will not increase the interpretation skills of Topographical map is rejected and the alternative hypothesis that is Computer Assisted Learning Module will increase the interpretation skills of Topographical map is accepted.

#### **7. Conclusions**

Computer Assisted Learning Module was implemented for topographical map interpretation skills to 25 students from Geography subject at special level FYBSC class from Arts, Science and Commerce College, Indapur. The conclusions are following.

1. The mean of pre achievement test is 8.2 and the mean of post achievement test is 13.1. Means Topographical map interpretation skills are increased.
2. With the help of statistical test, it is observed that there is significant increase in the because of implementation of Computer Assisted Learning Module.
3. Researcher created Computer Assisted Learning Module is useful to increase the Topographical map interpretation skills.
4. Computer Assisted Learning Module and Achievement test are contribution by the researcher for new research in future.

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