

**Critical Review of *Learning Objects and e-Learning Systems: A Research Review*
(Jayanthi, Srivatsa & Ramesh, 2007)**

1 Introduction

2 The study carried out by Jayanthi, Srivatsa & Ramesh (2007), the study was to analyze
3 and find out the difference between the Traditional Teaching Methods and Teaching by
4 using e-Learning. The study was conducted among students of SCSVMV in Concepts of
5 Object Oriented Programming using C++. In these research review the authors state
6 that; "The results of the study shows that the systematic use of Learning Objects as part
7 of the instructional design process will improve the quality of Teaching and it plays an
8 important role in e-Learning".

9 With this above statement by the authors, as a reader I asked myself how the authors
10 came to this conclusion, but after going in the details of the review and seeing the steps
11 they used, they support their findings.

12 The objective of this review was to establish the usability and the differences in Teaching
13 (traditional method and using e-Learning) and the relationship between the two methods.
14 The authors used different tools to collect Data hence they came to a certain conclusion
15 at the end of the review.

16 Validity

17 In the study the tests and the instructional materials were processed, the information
18 which was taken from the students as questionnaires was analyzed and systematically
19 examined. Jayanthi, Srivatsa & Ramesh (2007) says " the validity of a test, or of any
20 measuring instrument, depends upon the fidelity with which it measures what it purports
21 to measure. A test is valid when the performance is otherwise independently measured
22 or objectively defined" (p. 1116). The study as mention before deals with Teaching

methods, in this study the teaching methods are independent variables, they bring the elements of the study in evaluating how effective they are in teaching. It allow the research to come to a point where they will decide, which method of teaching could be used or adopted. However the results may not be valid because the number of the students that were used in the study was very small, only 4 students were used to come up with the study results.

In the Hypothesis it was found out that there will be a significant difference between the traditional teaching method and teaching by e-Learning system designed using Learning objects among a certain students but again it will depend on the subject that is taught. Jayanthi, Srivatsa & Ramesh (2007) stated “There is a gap of one or more stanines between Teaching by using e-Learning system Designed using Learning Objects and Traditional Teaching Method among engineering students in Classes and Objects, Friend Functions, Virtual Functions, Operator Overloading, Templates Concepts and in the sample. (P.1118)” This is the relationship between the variables that were sampled in this research and it was found out the both the methods of teaching are effective. In my view looking at the results the research came to both the methods of teaching are relevant and they should be used interchangeably. On the other hand, these research was carried in one course, if it can be done to all the courses the results may come out totally different, to what Jayanthi, Srivatsa & Ramesh (2007) have discovered. Now the question is are both the methods of teaching discussed carry the same weight or not as in this course. To find more information the study has to be extended to all type of institution and different course and this study was confined to a smaller section of one institution and the results generalized to other courses.

The research's Ethical consideration on the course were not followed properly, I somehow believe that the students who took part in the study were not aware of the results we were going to be published. When the students were given the questionnaires, they were informed that it was a test based on their knowledge, the results will be kept confidential. In doing the questionnaires they were made to believe that answering the questions had no fixed time to be answered, but were asked to complete within 30 minutes. They were tricked in my opinion which is very unethical.

"The results of the study show that the systematic use of Learning Objects as part of the instructional design process will improve the quality of Teaching and Learning and it plays an important role in e-Learning. In conclusion (Jayanthi, Srivatsa & Ramesh, 2007) this study could have included more students and more courses to come to a conclusion that the research was trying to point out.

Reference

Jayanthi, M. K, Srivatsa, S. K, Ramesh, T. (2007) Learning Objects and e-Learning System: A Research Review. *Information Technology Journal*, 6(7), 1114-1119.