



Comparative Study of E-Learning and Classical Teaching Methods in Computer Applications

Wagh D.M.

Department of Computer Application, Hutatma Rajguru Mahavidyalaya, Rajgurunagar, University of Pune, INDIA

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Abstract

From the beginning, in branch of Information Technology for teaching theory and practical work with various streams of computer application and science classical teaching methods are used. The evolutionary trends in teaching context are influenced by various factors like organizational, socio-culture, intra and interpersonal factors. The present study carried out effective influence of learning methods of computer application students. The interest of academic profession depends upon the personal decisions made by teaching practitioners, e-learning adaptation and classical teaching understanding.

Keywords: Information technology, e-learning, learning adaptations, computer application.

Introduction

According to The Information Technology Association of America “the study, design, development, application, implementation, support or management of computer-based information systems” is nothing but the Information Technology. While considering ongoing process of traditional teaching and simplification of books makes the learning difficult and increases the complications. Classical teaching method grows learning skills with the help of syntax, facts, and various communication Medias. It well understands when we compare through logic and expressions when apply for comparatively taught subjects. Organization arranges their fully trained person’s lectures, where all students observe, learn, study and prepare themselves through direct instruction and expressions methods. This method includes dependability for education that is students are recording facts and gathering information only through instructions and expressions given by trainers. They develop their analytical skills, logic for various subjects and various skills through traditional teaching methods.

While e-learning teaching methods includes use of internet services, computers and advanced information technology methods for teaching and learning methods. The new arising method not includes face to face communication between trainer and students. The method includes various opportunities to express students by their own way by using internet as communication medium. This system also helpful for selection of multiple resources to capture information and related facts, when we considered comparatively taught subject for understanding. Newly arising method provides efficient way to understand the concepts, methods by using electronic way of communication and information technology researches for study, learn, understand and to express all these

things. The new technology of e-learning make system attractive and make effective which may help to increase learning ability of the learner from good resources and by using variable resources¹.

Now a day classical teaching methods are commonly used in school, colleges and universities also. But while considering the tremendous development in electronic media such as wireless devices, mobile phones and several others, it make possible to adapt toward online education with learning and teaching methods. This paper introduces and compares both the traditional or classical teaching method and online that is e-learning method with common methodologies. The success in objective of e-learning depends on teaching process quality also use and availability of Internet facility². Various factors influences the online learning process mainly include internet access specially speed in rural areas, organizational factors like classrooms, electricity, authority supports, etc. And also some interpersonal factors like mentality and ability to learn and express.

E-learning provides “any time and any space” learning and teaching facility with efficient way for understanding the facts effectively. Also this arising technique does not require high cost investment in infrastructure, technical requirement, and other requirements³. This is fact that classical teaching method requires good teaching faculty, high infrastructural cost investment, large space, good management and many other things. As compare to e-learning, this requires less infrastructural cost investment, various resources available for learning process so it minimizes the cost. This cost factor also act as key factor while considering educational cost and automatically provides good cost alternatives in form of e-learning. The educational system affected by educational cost particularly in rural areas, where the e-learning does not shows

growth. While considering scope and cost contribution, successful implementation and finally the effectiveness in society, at many circumstances technology of e-learning adapted well and will grow day to day⁴. The student brain stress and achievements were implicated through E- learning method⁵.

Methodologies

Total 80 students and time span of whole one year which is divided into two semesters. In the first semester lectures was arranged by classical teaching methods delivered by trainer of different subjects. And after each month the examination was taken. Similarly, in 2nd semester lectures were arranged by using online teaching methods i.e. implement e-learning method then conduct examination after each month. The level and selection of subjects was not by student’s choice, so it maintain similar throughout year in both semester, care taken was subject and topic not repeated and logically all subjects different from each other.

Results and Discussion

The present research reveals that, the classical teaching method result of first semester is less than the e-learning teaching method of second semester. In the semester first, end of the every months test were carried out in which 56.25%, 62.50%, 60.00%, 52.5%, 66.25%, 63.75% are passed and 43.75%, 37.5%, 40.00%, 47.50%, 33.75% and 36.75% was failed students respectively. In the semester second, also end of the every months test were carried out in which 77.560%, 87.50%, 90.00%, 95.00%, 92.50%, 97.50% are passed and 22.50%, 12.50%, 10.00%, 5.00%, 7.5%, 2.5% was the failed students respectively (table-1, figure-1). As per results obtained, e-learning method is more effective in computer application students than the method of classical teaching. From the literature based on e-learning the various factors like Internet service provider, speed of connection particularly in rural areas, classroom facilities, resource available, students mentality, learning ability, etc. are also plays key role in success of e-learning process. The percentage of passing by e-learning method in semester second is higher than the semester first.

Table-1
Examination results of classical method and e-learning method

Examination Test Period in months		Total Result of Students out of 80			
		Pass	Fail	Pass %	Fail %
Classical Method	June	45	35	56.25	43.75
	July	50	30	62.5	37.5
	August	48	32	60	40
	September	42	38	52.5	47.5
	October	53	27	66.25	33.75
	November	51	29	63.75	36.25
E-Learning Method	December	62	18	77.5	22.5
	January	70	10	87.5	12.5
	February	72	8	90	10
	March	76	4	95	5
	April	74	6	92.5	7.5
	May	78	2	97.5	2.5

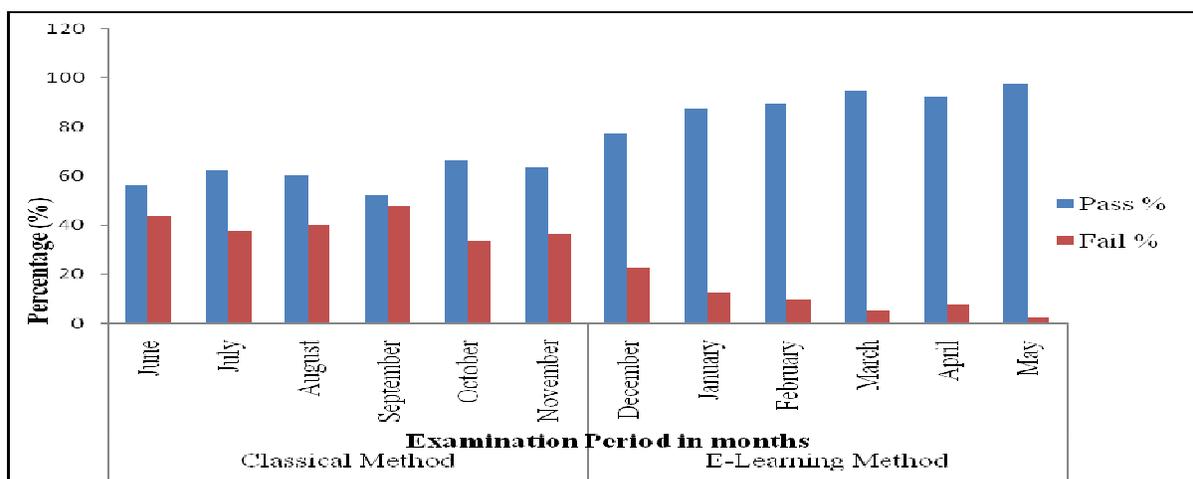


Figure-1

Graph shows that difference between the Classical and E-Learning teaching methods

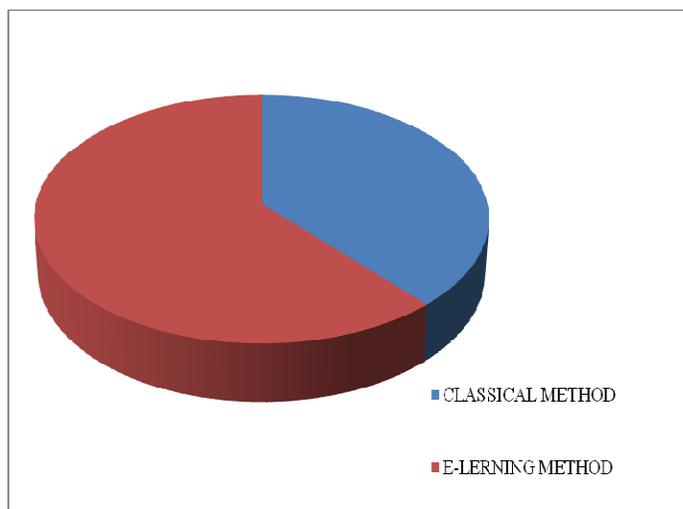


Figure-2

Comparison of passed students in Classical and E-Learning teaching methods

In future research may investigate about the effect of e-learning process on student understanding and also on teaching and learning methods⁶. The change according to situation that is according changing environment of technical education and using tremendously developed electronic devices e-learning methods are accepted by various level users⁷. In technical educational student particularly from computer application department having some basics of technology, they are well familiar with growing technologies and enough technique for learning and understanding ability⁸. The E-learning method provides the various opportunities to get some learning for listeners and teachers to management^{9, 10}. The teaching method and the social site like TV, internets and newspaper were increased the confidence of students^{11, 12}.

Conclusion

The present research concludes that, the e-learning teaching method is better than classical teaching method with the reference of monthly conducted test and student's feedback. This research focuses on there are some consistencies in the students experiences of e-learning and there is challenge for classical teaching. From these students commonly positively evaluate having access to e-learning teaching method although there is still more to do to provide induction into the use of such classical teaching which will understand all learners.

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