

## 7. Awareness regarding e-learning among girls and boys of higher education

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### Abstract

*E-learning is one of the most important learning processes and is being practiced by students who are studying for their degree in higher education institutes both government and private around the globe. Many of the universities and colleges have changed their teaching and learning processes via online worldwide. An e-Learning scale by Dr. Mahesh Kumar Muchhal (Digambar Jain College, Baraut, Baghpat U.P.) was used as a tool. The test was administered on 100 students of age group 17 yrs in Jabalpur, the students belonging to hire learning. As a result, I found that e-Learning is both the present and the future of learning. Studying for leisure or to advance one's education and career is becoming increasingly convenient, leading to a projected increase in demand. e-Learning is fit for college online programs, employers looking to onboard, upskill, or reskill their employees, soft skills development, non-profit educational projects, and more.*

**Keywords:** e-Learning, Effective learning, Awareness.

### Introduction

The process of learning involves actively acquiring knowledge or skills through education, experience, or study. Traditional learning provides students with interactivity, motivation, accessibility, and organization. Interactivity facilitates direct communication between teachers and students during the learning process. Consequently, students can enhance their ability to work in groups and promptly clarify doubts about specific subjects, a feature that sets it apart from e-learning. In a conventional classroom setting, students have the opportunity to openly express their viewpoints and address their own uncertainties with the teacher, resulting in prompt clarification. The education system has evolved with technological advancements and the changing times.

Technological progress and the advancement of e-learning have led students to gradually shift their interest away from traditional learning. E-learning has gained popularity due to its integration with course modules, offering vital support to students at any time. The increasing prevalence of smart devices, in addition to desktops and laptops, and the growth of internet providers have contributed to the rising popularity of e-learning. The higher education sector faces unconventional challenges in the current dynamic scenario. Typically, teaching and learning activities are conducted in person to meet the growing demand for educational opportunities. Higher education institutions (HEIs) are constantly expanding their services online. However, rapid advancements, new teaching technologies, software packages and student span of attention have changed the ways of teaching especially in higher education institutions (Hearn, Turley, & Rainwater, 2017). Moreover, the prevailing COVID-19 has also pressurized even the most passive institutions to change their teaching modes (Daniel, 2020).

The delivery mode chosen has a substantial impact on the quality of learning in higher education. Distant education, such as online/remote teaching, involves students receiving instruction and assessments from a location away from the university campus rather than attending in person. Remote education has been operational for a long time, and before the internet era, it was facilitated through postal communication. However, technological advancements have modernized remote education, enabling the provision of courses through virtual/online platforms starting in the early 1990s, and it has now become indispensable in higher education.

Online education is a modern educational approach that allows the acquisition of knowledge on various subjects from home using internet-based communication tools. To facilitate this, both the teacher and the learner need to have access to mobile devices, tablets, computers, or laptops. The impact of information communication revolution in the era of modern globalization has minimized geographical barriers in education. This effect is evident in the ability to receive education from exceptional scholars worldwide through internet technology while being at home.

Previously limited to technical institutes, online education has proven to be beneficial for individuals at all educational levels, from primary to higher education. It can be referred to as e-education, virtual education, distance education, digital education, and more.

Online education is not merely a technology; it represents a new form of socialization that provides insights into government policies and intentions. Its use in education is essential, especially during the current COVID-19 pandemic, where technology has been leveraged to maintain physical distance and aid in educational development.

The transition to digital aspects of our personal lives was previously unimaginable, including online banking, markets, catering, bill payments, ticketing, and travel arrangements. The prevalence of ATMs and online ticketing showcases the necessity and reality of online services today.

Today, all our essential services are accessible online, indicating that online media has opened new possibilities. The COVID-19 crisis has further reinforced the significance of online education as a medium. The presence of a teacher and virtual learning are two distinct situations, making it hard to find an alternative. Our minds may not be ready to acknowledge the success of online classes due to our conditioning to value physical classes. Despite this, it is undeniable that the virtual world is triumphing over the real world across all areas today. In today's digital age, every aspect of society has been impacted by online processes. The COVID-19 pandemic has made the virtual classroom the primary mode of education. Given this scenario, it appears necessary to assess students' knowledge, adjustment to e-learning, interest, lack of information, significance, and limitations of e-learning. To measure this, the Current e-Learning Scale has been developed.

### **Dimensions of E-Learning Scale**

1. Awareness about e-Learning is important. It is essential to educate students about the new online technology and various e-Learning tools such as laptops, tablets, computers, and email.
2. E-learning is an advanced form of learning technology that utilizes technology and specific learning methods. This has led to an increase in student interest in e-learning.
3. E-learning is a recent educational concept that involves utilizing internet technologies to deliver and communicate the curriculum. Currently, a large number of individuals lack knowledge about online education.

4. The significance of E-learning lies in the fact that students can grasp challenging topics easily, revise their syllabus multiple times, and stay informed with the latest information on the online platform.

5. The drawback of E-learning is the lack of communication between teachers and students. This results in a significant digital divide between wealthy and less affluent individuals in the country.

**Objective :**

To determine e-Learning awareness of the students.

**Hypothesis :**

“There is no significant difference between the awareness of boys and girls have a sufficient awareness about e-learning.”

**Tools:**

To carry out any of the research data with which the hypothesis may be tested a great variety of research has been developed to aim in acquisition of data.

The tool used for the present research:

An e-Learning scale by Dr. Mahesh Kumar Muchhal (Digambar Jain College, Baraut, Baghpat U.P.).

**Sample:**

The test was administered on 100 students in Jabalpur, the students belonging to higher learning. An item analysis of 60 students was carried out and the test was given to a large unselected sample of 100 Students of Higher Learning of various colleges of Jabalpur.

Statistical methods: - To attend the objectives of the study the investigators use mean, standard deviation and T test technique.

**Data Analysis:**

**Table for higher education girls and boys regarding awareness of e-learning**

Students	No. of students	Mean	Standard deviation	Value of t
Girls	50	46.9	2.477	2.046
Boys	50	46.22	3.035	

Table value=1.98 at .05 level.

From table no.1, results regarding awareness of e-learning, the mean of girls and boys are 46.9 and 46.22 respectively and the standard deviation are 2.477 and 3.035 respectively. T- value of it is 2.046 at 0.05 level.

The value of t-test is above the table value.

**Result Analysis:** - Hypothesis no.1 is “*There is no significant difference between the awareness of boys and girls have a sufficient awareness about e-learning.*” Proposed hypothesis is partially accepted. Since the table value is greater than the t-value at 0.05 level.

This indicates that the boys and girls have a sufficient awareness about e-learning.

**Discussion:**

Above results show the awareness about e-learning between boys and girls is good. Awareness regarding E-learning emphasis has been laid on the need to make students aware of new online technology and knowledge of various tools of e-learning like-laptops, tablet, computer, e-mail etc. Therefore, by the analysis of hypothesis, the conclusion is that the awareness of e-learning in 50 boys and 50 girls have mean 46.9 and 46.22 and standard deviation is 2.48 and 3.035. The value of t-test is 2.046 at 0.05 level. This hypothesis is partially accepted.

## EDUCATIONAL IMPORTANCE

Educators can recognize and assess various learning styles, such as auditory (radio, television), visual (pictures, animation), and audio-visual (videos), among other things, to cater to the needs of diverse learners. The utilization of ICT tools will enable teachers to accomplish the intended learning objectives. E-learning meets the requirements of each individual student. The digital transformation has brought about significant alterations in how we obtain information. Students can learn on the move regardless of their location. Online content can be rapidly and instantly updated and refreshed, enabling learners to remain up to date with current trends and fresh news in any field. E-learning courses are typically designed so that learners can revisit the course as frequently as they want. E-learning is considerably time-efficient when compared to traditional learning methods. It is more cost-effective to study online, as there are no travel expenses, relocation costs, or the need for expensive textbooks. It can be concluded that e-learning represents both the current state and the future of learning. As more individuals realize the convenience of studying for personal enrichment or to further their education and careers, the demand for it is likely to increase. E-learning is suitable for online college programs, employers seeking to hire, upskill, or reskill their employees, the development of soft skills, non-profit educational initiatives, and more. E-learning overcomes geographical barriers, enabling students from different parts of the world to connect and learn together. It encourages cultural exchange, diversity, and a broader global perspective. E-learning platforms can integrate multimedia components such as videos, animations, simulations, and interactive quizzes, enhancing the learning experience and making it more enjoyable. Interactive features contribute to a better comprehension and retention of complex concepts.

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