

Benefits of Web-Based Learning

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Abstract:

The basic idea of the this technology based education is to help the students to gain the knowledge from the internet at any time they need. This helps the students who feels difficult to learn with the help of books and it benefits the students who are differently abled by using the devices or software which helps them to learn. The objectives are to analyze how the students are benefited because of the technology-based education and to find an association between the education qualification and the benefits offered by the education which are provided via the web (internet) - based courses. The survey was taken to the students of different age groups to know their ideas and defects of these technologies for education. The sort of research handled in this investigation is descriptive and software utilized is SPSS. 1810 samples had collected and it is considered as a sample size. The statistical tools used here is chi-square, independent sample test, and ANOVA. This paper discuss about the technology development in education and how the students are beneficial to those development. This paper concludes that the students are very much interested in gaining knowledge by using this web-based education and it is very easy for the students to cover their syllabus by sitting in their home at any time they wish.

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I. INTRODUCTION

Over previous years, It was very difficult for the students to learn and gather information from the school books and even teachers find it difficult to teach the students theoretically than practically but nowadays, students are very lucky to have a web - based education which gives them more practical experiences than studying from books and this web based education is also known as electronic system of learning in which education is fully based on the internet. Most of the schools and colleges using web-based education like smart board, and many learning applications have been introduced for students like BYJU'S Learning App which is

beneficial for primary schools to higher education students. Web availability is one of the most basic issues confronting advanced education. Even Though new web advancements and online media has been a help for separation and web-based educating, students and staff with disabilities have gotten progressively distraught. These innovative idea of technology based education helps the students and it gives them the choice of choosing the subject which they need to study and time they need to study and mainly it is very easy to get the subject and about it easily with a single click even handicaps , blinds, dumps and deaf people can also able to educated easily these days with the development of technologies. All

these people have some software, devices, etc. for developing their studies and these innovative inventions helps them to increase their standards.

II. OBJECTIVES

- To find the benefits of technology education with regard to educational qualification
- To analyze the innovative ideas of technology-based education and gender
- To examine the advancement of education due to the internet

III. LITERATURE REVIEW

N Hamzah (2017) concludes that our traditional education must be developed to avoid the boredom of the students. He gathered information from about 500 students. Study made by quantitative method. **Erhan Sur (2017)** discussed about the modern education growth in today's world and how teachers are benefitted because of the technology and how the students can use the gadgets for study purposes and effects of these growth

Robin Kay (2011) discovered that the education which is based on technology can be used in classrooms for the grade from 1st even upto 12th it can be used and students will prefer that method to study. It can also be used in the universities to educate the students

Lisa A. Petrides (2002) concludes the ways how the school students are to be educated by using this smart board education system and suggested to attach the smart boards in every classroom to address the students

Karl Pajo (2001) discussed the advancement of the technical machines like computers, devices used for differently abled children and how to deliver a lecture using those devices . How the teachers are to be trained. study was taken in some universities. **WaiChing Poon (2004)** explains the development in the Internet about the education by using some applications like blackboard, byju's etc. This survey taken in the states of Malaysia, and discussed about the characteristics and effects .

IV. MATERIALS AND METHODS

The sort of research handled in this investigation is descriptive and software utilized is SPSS. Convenient sampling method is used in this study. 1810 samples are collected and it is considered as a sample size. Independent sample t test, chi square and ANOVA are the research tools used in this research.

V. ANALYSIS AND DISCUSSION & RESULTS

H1: Opinion on Online Courses Benefits Students is based on Educational Qualification

Table 1: Cross tabulation – Online Courses Benefits Students

Educational Qualification	Online Courses Benefits Students		Total
	Yes	No	
Primary	106	52	158
	67.1%	32.9%	100.0%
High School	67	320	387
	17.3%	82.7%	100.0%
Higher Secondary	599	205	804

	74.5%	25.5%	100.0%
Degree and above	324	143	467
	69.4%	30.6%	100.0%
Illiterate	37	7	44
	84.1%	15.9%	100.0%
Total	1133	727	1860
	60.9%	39.1%	100.0%

Table 2: Chi-Square Tests – Online Courses Benefits Students

	Value	df	Sig.
Chi-Square	39.787	4	.001

The value of test statistics is 39.787, sig. value is 0.001. So, it can be concluded that the opinion on online courses benefits students is based on the educational qualification of the respondent. Most of

the higher secondary school students states that they are benefited by the online courses and technology-based education.

H2: Changes due to Web Technology differs based on the Gender

Table 3: Opinion on Changes due to Web Technology

Gender	N	Mean	Std. Deviation	Std. Error Mean
Male	1106	2.56	.883	.027
Female	754	2.45	.986	.036

Table 4: Independent Samples Test - Opinion on Changes due to Web Technology

	t	df	Sig.
Independent Sample t test	2.587	1858	.010

Using Independent sample t test, it was found that p value < 0.05, therefore, the opinion on changes

due to web technology differs with respect to the gender.

H3: Benefits of Web Technology based on the Age

Table 5: ANOVA – Benefits of Web Technology

		Sum of Squares	df	Mean Square	F	Sig.
Saves Time	Between Groups	159.018	4	39.754	36.435	.000
	Within Groups	2023.982	1855	1.091		
	Total	2182.999	1859			
Browsing helps for deep knowledge	Between Groups	112.182	4	28.045	38.049	.000
	Within Groups	1367.308	1855	.737		
	Total	1479.490	1859			
Improves IT Skills	Between Groups	153.537	4	38.384	56.005	.000
	Within Groups	1271.354	1855	.685		
	Total	1424.890	1859			
Improves Employment Prospects	Between Groups	260.098	4	65.024	69.442	.000
	Within Groups	1736.997	1855	.936		
	Total	1997.095	1859			
Addiction	Between Groups	483.286	4	120.821	109.078	.000
	Within Groups	2054.712	1855	1.108		
	Total	2537.998	1859			

For all the benefits of web technology, significant value is below 0.05, that is the agreeability towards benefits of web technology depend on the age of the respondents.

VI. CONCLUSION

Web- based education gives huge opportunities for learning and access to a vast amount of knowledge and information. It also provides huge opportunities for differently abled persons by providing technical devices, software etc. this technology helps the students to communicate with the experts to clarify their doubts. Technology helps to save time as well as it saves paper. It also encourages the students to develop their skills. But the disadvantage of this technology is that the data stored in it is not secured.

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