

AN ANALYSIS OF STUDENTS AND EDUCATORS' AWARENESS TOWARDS INTERNET UTILIZATION

(A REVIEW STUDY)

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ABSTRACT

Internet is supposed to be a powerful functional tool being used by people now a days. It is a supplement for both student and educator as internet proves to be of most help in academic institutions in current world of technology. It is a commonplace of sharing ideas, knowledge, experiences and culture.

Internet has removed the knowledge gap between educators and students. The use of internet for help in academics and research from experts at different places has added on many opportunities like gaining deep knowledge about our interest area and following latest approaches to implement different techniques in our domain. Online tutorials prove to be helpful to students to learn more and help educators to bring a change in teaching pattern.

The aim of this paper is to analyse the degree of awareness amongst students and faculty of different institutions of Sirsa, Haryana towards Internet Utilization. The data source has been mentioned in the paper and analysis is done on its basis and it is concluded that the attitude of students and educators is positive towards internet utilization revealing that education pattern is changing with time and technology and has been readily adopted in educational institutions of district, Sirsa.

Keywords: Degree of freedom, Educators, Internet, Significant, T-Test.

I. INTRODUCTION

The Internet Society Report 2015 reveals that internet usage is increasing day by day. The report focuses on mobile users telling that with the help of more efficient applications, users are more online today and prefer internet more than the offline mode to solve their daily purposes. The statistics in the report shows that there are 192 countries which provides active 3G networks to their countrymen which has increased the internet usage over mobiles which is estimated to reach 71% by 2019.[1]

Mary Meeker's 20th annual Internet Trends report reveals that around 2.8 billion users of internet are there worldwide as calculated in 2014. Mobile phone users have increased from nearly 1% to 73% from 1995 to 2014. The users are more involved with mobile applications for connecting socially using applications like WhatsApp, WeChat, Facebook Messenger. Also users order what they demand, using internet.[2]

The NMC Horizon Report: 2015 Higher Education Edition tells that open educational resources are widely used amongst universities for academic and research purposes. There is a shift in the pattern of educational learning. It has shifted to use of online learning tools, online books, online help and guidance. The US National Center for

Education Statistics shows that atleast one student out of the ten is registered in online courses. It shows that educational system is readily using internet.[3].

Global Education Technology (Ed Tech) and Smart Classroom Market Analysis, Growth, Trends and Forecast by 2022 tells that organizations like Apple Inc., Inc., Blackboard Inc., Dell Inc., Cisco Systems Inc., Discovery Communications, are involved in providing setup for smart classrooms. Thus the trend of e-learning is used widely in regions like North America and Europe. The devices used in e-learning are completely internet based and the organizations provide resources to combine learning alongwith the performance evaluation making it easy for the learners to judge their learning process.[4]

Dr.Chongtham Beda Devi et al.,says in their research paper that about 54% of the users use internet resources for their study purposes. The research paper also shows that the increase in the use of internet has helped the students in their academic and research works.[5]

Ahmad FauziMohdAyub et al., have found in their research that students in the social sciences, agriculture and computer sciences spend relatively more time than the science students on internet for their educational purposes.[6]

A news reveals that India has the third largest internet users in the world after China and the US . The news also tells that the number of users is expected to reach 147 million by June 2016 due to the growth in mobile Internet users.[7]

A review done in University of Lagos, Nigeria also tells that about 89.9% of respondents were able to access Internet due to availability of resources and so they used internet for the educational purposes and used it for their study in the insitutions.[8]

Internet is assisting people of different age groups in their daily lives. This review paper put forward an analysis of attitude of students and faculty towards internet usage. The analysis will tell us that internet is being widely used in the educational institutions of Sirsa district in Haryana and technology is adapted and educational trend is changing.

II. ANALYSIS: STUDY LEVEL WISE

The table 1 gives t-value which is got by applying t test on various samples collected from different institutions of Sirsa district. The t-test result for each item or question is found out in Ms-Excel 2007 with extra add-ins named Analysis Toolpackwhich is used for analysis of attitude of students, Study level wise(at post-graduation (PG) and at graduation (UG) level).

Table 1(Study Level Wise Student Awareness towards Internet)

Q.No	Questions	PG N=50		UG N=56		t value (df=104 alpha=.05 two tail =1.983)
		PG _m	PG _{sd}	UG _m	UG _{sd}	
1	Internet is easy to learn and use	4.375	0.490	4.273	0.735	0.781
2	Internet is necessary in College/University	4.65	0.632	4.485	0.614	0.926
3	I use internet in my mobile	4.375	0.628	3.955	1.282	1.935
4	I can connect to someone to remote area by use of Internet	4.075	0.764	3.606	1.175	2.250
5	I feel Comfortable to search information on Internet	4.25	0.543	4.136	0.975	0.676
6	Internet help us to find JOB in remote area	3.975	0.577	4.045	0.919	0.435
7	I can see examination result quickly on Internet	4.175	0.712	4.470	0.638	2.206
8	Use of Internet is enhancing my standard of living	3.675	1.118	3.682	1.125	0.030
9	I do not like Internet due to waste time & efforts	2.025	1.187	2.333	1.219	1.274
10	I can find study material on Internet easily	4.1	0.709	4.121	0.851	0.132
11	I use Internet in both in my home and in College/University	4.45	0.749	3.667	1.128	3.899
12	I can use Internet for Online Payment	3.95	0.749	3.379	1.212	2.683
13	Internet is source of entertainment	4.425	0.549	3.591	1.052	4.639
14	Internet help me to find e-book	3.775	0.974	3.636	0.971	0.712
15	I use Internet once in a week	2.975	1.441	2.318	1.303	2.417
16	Internet is hub of Useful information	4.35	0.580	4.167	1.001	1.055
17	My Teacher should use Internet in his/her teaching	4.275	0.679	4.136	1.065	0.737
18	I have never been frustrated with the Internet	3.775	1.121	3.258	1.207	2.198
19	I used social websites, chatting, surfing on Internet	4.55	0.639	3.727	1.376	3.552

Source : [9]

Table 1 shows the student level wise awareness about internet. There are 19 questions in total whose mean and standard deviation is found. T-test is also applied on the given data.

Table 1 has revealed that Q.no. 1-3, 5-6, 8-10, 14, 16-17 students of Postgraduation and Graduation have almost same attitude towards internet as calculated t value is less than the observed value(1.983). It is revealing that Q. no. 4,7,11-13,15,18-19 shows that students of Postgraduation and Graduation have different attitude towards internet as calculated t value is greater than the observed value.

Q.no. 2 “Internet is necessary in college and university” has the highest mean value which is PG_m=4.65 and UG_m=4.48. This assures that use of internet is necessary in educational institutions like college and university.

Q.no.9 "I do not like Internet due to waste time & efforts" has the lowest mean value which is PGm=2.025 and UGm=2.333. This shows that using internet is not wastage of time and efforts.

It is also found out from the table that in Q. no.s 1-8, 10-14, 16-17 and 19 , PGm>3.5 and UGm<3.5, Q.no. 9 is undecided which is found out from the data records ; for Q. no. 15 PGm>=2.5 and UGm<=3.5.

III. ANALYSIS: STREAM WISE

The table 2 gives t-value which is got by applying t-test on various samples collected from different institutions of Sirsa district. The t-test result for each item or question is found out in Ms-Excel 2007 with extra add-ins named Analysis Toolpack which is used for analysis of attitude of students, Stream wise(Arts stream (ART) and Science stream(SCI)).

Table 2 (StreamWise Student Awareness towards Internet)

Q .No.	Questions	ART N=49		SCI N=57		t value (df=104 alpha=.05 t-two tail =1.983)
		ARTm	ARTsd	SCIm	SCIsd	
1	Internet is easy to learn and use	4.143	0.764	4.456	0.503	2.526
2	Internet is necessary in College/University	4.204	0.676	4.807	0.398	5.684
3	I use internet in my mobile	3.694	1.245	4.474	0.804	3.881
4	I can connect to someone to remote area by use of Internet	3.653	1.091	3.895	1.030	1.172
5	I feel Comfortable to search information on Internet	3.776	0.963	4.526	0.504	5.128
6	Internet help us to find JOB in remote area	3.714	0.913	4.281	0.590	3.844
7	I can see examination result quickly on Internet	4.102	0.770	4.579	0.498	3.835
8	Use of Internet is enhancing my standard of living	3.245	1.109	4.053	0.990	3.962
9	I do not like Internet due to waste time & efforts	2.265	1.238	2.175	1.197	0.379
10	I can find study material on Internet easily	3.939	0.689	4.263	0.856	2.125
11	I use Internet in both in my home and inCollege/University	3.755	1.128	4.140	0.990	1.873
12	I can use Internet for Online Payment	3.224	1.177	3.912	0.912	3.386
13	Internet is source of entertainment	3.592	0.998	4.175	0.889	3.184
14	Internet help me to find e-book	3.469	1.002	3.877	0.908	2.198
15	I use Internet once in a week	2.633	1.395	2.509	1.390	0.457
16	Internet is hub of Useful information	3.896	0.881	4.509	0.759	3.830

17	My Teacher should use Internet in his/her teaching	3.898	0.832	4.509	1.023	3.857
18	I have never been frustrated with the Internet	3.184	1.167	3.684	1.183	2.186
19	I used social websites, chatting, surfing on Internet	3.571	1.472	4.439	0.756	3.892

(Source : [9])

Table2 shows Stream Wise Student Awareness towards Internet. There are 19 questions in total whose mean and standard deviation is found. T-test is also applied on the given data.

The above table has revealed that Q.no. 4,9,11,15 students of arts and sciences have almost same attitude towards internet as calculated t value is less than the observed value(1.983). It is revealing that Q. no. 1-3,5-8,10,12-14 and 16-19 shows that students of arts and sciences have different attitude towards internet as calculated t value is greater than the observed value.

Q.no. 2 “Internet is necessary in college and university” has the highest mean value which is ARTm=4.204 and SCIm=4.807. This assures that use of internet is necessary in educational institutions like college and university.

Q.no.9 “I do not like Internet due to waste time & efforts” has the lowest mean value which is ARTm=2.265 and SCIm=2.175. This shows that using internet is not wastage of time and efforts.

It is also found out from the table that in Q. no.s 1-7,10-11,13-14,16-17 and 19 , ARTm>3.5<SCTm .

It has also been found that for Q. no.s 4,6, 12 The mean of science students is greater than that of arts students. Thus the response of science students is more positive towards internet than that of arts students for the issues like connecting to someone in remote area, finding job if we are in remote area and using it for online payment.

IV. ANALYSIS OF EDUCATORS’ OPINION

The table 3 gives the percentage values for different questions. The values shows that how many educators strongly agrees(SD),disagrees(D),undecided(UD), agrees(A) and strongly agrees(SA) to the question. The percentage values are found using Ms-Excel 2007.

Table 3(Educators’ Opinion towards internet)

	Dependent Variables	SD C(p)	D C(p)	UD C(p)	A C(p)	SA C(p)
1.	Internet helps to improve Indian academic growth	0 (0.0)	3 (2.6)	8 (7.0)	77 (67.5)	29 (22.8)
2.	Internet is good social media.	1 (0.9)	3 (2.6)	4 (3.5)	71 (62.3)	35 (30.7)
3.	Internet promotes cyber crime	0 (0.0)	16 (14.0)	9 (7.9)	68 (59.6)	21 (18.4)
4.	Internet is harmful for our educational society	39	49	13	9	4

		(34.2)	(43.0)	(11.4)	(7.9)	(3.5)
5.	I use Internet to prepare my lecture notes	0 (0.0)	9 (7.9)	8 (7.0)	69 (60.5)	69 (60.5)
6.	Internet act as digital library of e-books	0 (0.0)	3 (2.6)	7 (6.1)	70 (61.4)	34 (29.8)
7.	Internet is play a major role as research tool	0 (0.0)	2 (1.8)	1 (0.9)	38 (33.3)	73 (64.0)
8.	I think Internet is easy to use as compare to Library	1 (0.9)	12 (10.5)	7 (6.1)	68 (59.6)	26 (22.8)
9.	I motivate my students to learn Internet	0 (0.0)	1 (0.9)	2 (1.8)	78 (68.4)	33 (28.9)
10.	Internet is wastage of time and efforts	37 (32.5)	64 (56.1)	7 (6.1)	6 (5.3)	0 (0.0)
11.	Internet is great hub of useful Information	0 (0.0)	0 (0.0)	0 (0.0)	41 (36.0)	73 (64.0)
12.	I do not like Internet due lack of knowledge	40 (35.1)	59 (51.8)	5 (4.4)	9 (7.9)	1 (0.9)
13.	I think Internet is not easy to learn	18 (15.8)	75 (65.8)	4 (3.5)	16 (14.0)	1 (0.9)
14.	I forgot time while using Internet	8 (7.0)	29 (25.4)	16 (14.0)	47 (41.2)	14 (12.3)
15.	I am confident while using Internet	0 (0.0)	1 (0.9)	6 (5.3)	82 (71.9)	25 (21.9)
16.	I think Internet is best communication media	0 (0.0)	6 (5.3)	5 (4.4)	69 (60.5)	34 (29.8)
17.	I use Internet in my mobile	4	7	5	64	34

		(3.5)	(6.1)	(4.4)	(56.1)	(29.8)
18.	I think Internet is source of entertainment.	1 (0.9)	6 (5.3)	7 (6.1)	79 (69.3)	21 (18.4)
19.	I use Internet to read newspaper	7 (6.1)	31 (27.2)	16 (14.0)	55 (48.2)	5 (4.4)
20.	I use Internet at my home and College/University	1 (0.9)	0 (0.0)	1 (0.9)	65 (57.0)	47 (41.2)

(Source : [10])

Table 3 shows that 67.5% believes that Internet is helpful in improving Indian academic growth, 62.3% educators agreed to the statement that Internet is a good social media. The statement “Internet promotes cyber crime” is believed by 59.6%.

The statement “ Internet is harmful for our educational society” is strongly disagreed by 34.2% of educators, disagreed by 43.0% of educators.

60.5% educators agreed that they use Internet to prepare their lecture notes, 61.4% agreed that Internet acts as digital library of e-books, 64.0% strongly agree that Internet plays a major role as research tool.

68.4% believed that they motivate their students to learn internet.

Educators think that Internet is not a wastage of time and efforts. This can be clearly made out from the percentage(56.1%) to which they disagree to the statement “ Internet is wastage of time and efforts “. It is believed by a great percentage of educators that internet is a great hub of information as 36.0% of them agree to it and 64.0% of them strongly agree to it.

51.8% of the educators disagrees to the statement “ I do not like internet due to lack of knowledge”, 65.8% of them disagrees to the statement “ I think internet is not easy to learn”.

41.2% of them said that they forget time while using internet. A great percentage(71.9%) of them agreed that they are confident while using internet. 60.5% of them believed that internet is best communication media.

56.1% of the educators use internet on their mobiles, 69.3% of them think it to be the source of entertainment. 57.0% of the educators agreed to the statement that they use internet both at their home and College/University.

Thus most of the educators are using internet in their social, personal and academic lives and agrees to most of the statements proving that internet is useful in their lives.

V. CONCLUSION

This review is done on the students and educators of university who use internet in their daily lives for educational purposes. The students of graduation and postgraduation belonging to different streams(arts and sciences) are involved in the survey and their views reveal that they are actively using internet for the educational purpose. It has also been found out that postgraduate students use more of the internet in their lives

than the graduate students. Postgraduate students use more of internet to find jobs from their homes, use more of social media and graduate students use it to view online result of examination. Science students use more of internet than the arts students.

Also the educators' actively use internet in their social, academic and personal lives. All the educators belong to different academic institutions of Sirsa district, Haryana. The review has revealed that the educators believe that internet is very helpful in their life whether it is to be used for educational or social or personal purpose. The review tells that internet proves to be a helpful tool for both students and educators in academics and should be improved further so that they could continue the use of internet. It also suggests different organizations and institutions to opt for internet as a multipurpose tool for both students and educators.

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