Internet and its Influence in Student Education

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ABSTRACT

Technology has changed the traditional ways of learning different skills or acquiring knowledge. Internet helps individuals to gain knowledge or update their knowledge and skills. Students use Internet to understand theoretical concept by understanding its applications they are using in their daily life. Teachers can use internet to understand better teaching methodology with more live examples. Parents also use internet to find better career options for their children. However, Internet also has bad impact on children at times. The different studies performed on Internet use in different parts of the world have shown the positive and negative aspects of Internet. Internet helps in communication, knowledge sharing and also understanding different cultures and traditions. This paper studies influence of Internet in student education. Both secondary as well as primary research was carried out to understand different parameters which make Internet Influential in student education. Questionnaire was designed for primary survey. 221 respondents were interviewed in the area of Navi Mumbai. The study shows that internet helps the students to prepare for the academic rigor.

Keywords: Internet, Student education, teaching methodology.

INTRODUCTION:

Technology has changed the traditional ways of learning different skills or acquiring knowledge. Internet helps individuals to gain knowledge or update their knowledge and skills. Students use Internet to understand theoretical concept by understanding its applications they are using in their daily life. Teachers can use internet to understand better teaching methodology with more live examples. Parents also use internet to find better career options for their children. However, Internet also has bad impact on children at times. The different studies performed on Internet use in different parts of the world have shown the positive and negative aspects of Internet. Internet helps in communication, knowledge sharing and also understanding different cultures and traditions. Internet has become irreplaceable in today’s world. Internet, as a communication medium has been used by almost every individual in most parts of the world. In one of the Northeastern states of India, numbers of Internet users are rising day by day. Since, students are the largest segment of Internet users, it has become important to study how they use the Internet. This particular study employs Uses and Gratification Theory to find out the Internet usage among the students. This study was done amongst 200 samples. Almost equal numbers of male and female students were considered as respondents. The study shows the correlation between gender, education and monthly household income and influence of the Internet (Jha, Subhash Feb2008).

Wi-Fi or Wireless internet is dominating the market. It has become extremely useful and powerful in today’s era. The concerned authorities of higher education have to make it sure that students should be able to use it. The study shows its research indicating its success in China. This paper aims to examine factors that influence students’ satisfaction (SAT) in using wireless internet in higher education for the purpose of learning. The study also identifies if gender has a moderating effect on students’ SAT in using wireless internet in higher education. A total of 283 students from five colleges of a comprehensive public university in China (Foreign Language Studies, Business, Education, Biology and Chemistry, and Mathematics and Engineering) were considered as respondent for this study. The results of this study showed the direct correlation between students’ satisfaction...
and perceived usefulness and ease of use of wireless internet. Besides, students’ perceived ease of use (PEU) and usefulness were directly affected by their computer self-efficacy. However, students’ computer self-efficacy showed an indirect effect on their SAT mediated by ease of use and perceived usefulness, respectively. The findings also discovered that gender did exert effect as a moderating variable towards students’ SAT in using wireless internet in higher education. (Islam, A. Y. M. Atiquil; Mok, Magdalen Mo Ching; Xiuxiu, Qian; Leng, Chin Hai. 2018.).

LITERATURE REVIEW:

Internet has become irreplaceable in today’s world. Internet, as a communication medium has been used by almost every individual in most parts of the world. In one of the Northeastern states of India, numbers of Internet users are rising day by day. Since, students are the largest segment of Internet users, it has become important to study how they use the Internet. This particular study employs Uses and Gratification Theory to find out the Internet usage among the students. This study was done amongst 200 samples. Almost equal numbers of male and female students were considered as respondents. The study shows the correlation between gender, education and monthly household income and influence of the Internet (Jha, Subhash Feb2008)

Internet also has its own disadvantages. The advance of digital media has created risks that affect the biopsyo-social well-being of adolescents. To name a few are cyberbullying, cyber dating abuse, sexting, online grooming and problematic Internet use. This study explains individually or through associations of some of these disadvantages m but they have not been explored conjointly. The main objective is to determine the comorbidity between the described Internet risks and to identify the profiles of victimized adolescents(Machimbarrena JM et. al, Internet Risks: An Overview of victimization in Cyberbullying, Cyber Dating Abuse, Sexting, Online Grooming and Problematic Internet Use, International Journal of Environmental Research and Public Health. 2018)

Derbyshire et al. (2013:2) in the research paper states that “problems related to frequent web use embody associate inability to regulate the time spent on Internet” and poor tutorial performance. Lyu explains in the study how Internet motivates unethical behavior and illegitimate behavior which “Internet has had a considerable impact on our ethical, legal and social system”(Lyu,2012:2).

Tomos et al. (2013: 7) has tried to establish a link between web usage, technology satisfaction, and student performance. Also, the technology resistance among students in an instruction establishment in Wales. The conclusion was drawn that there is direct correlation between web usage and tutorial performance. However students like extra coaching necessary to enhance their web usage skills and to beat the ‘resistance’. However, excessive use of Internet does not show favorable results on student’s academic performance and social well-being. Another study shows the correlation between use of Internet and University grades. Bird genus and Peng (2008) resolve that students who use the web for studies have considerably lower university grades, social relations and learning satisfaction, compared with students with traditional web usage.

The study done by Niculovic et al. (2012) establishes a link between student’s academic performance at the university, his social life and use of Internet. This study discusses how excessive use of Internet shows lack of self-control among students, weak tutorial performance and impaired social life. Another study gives different opinion on Internet usage. In study done by Suhaill and Tar found that the students’ get benefited by the use of Internet in their studies. They have discussed about 3 aspects: improved their grades, “expanding their reading, writing and information-processing skills, and had tested a useful tool in their learning”. Stanciu et al. (2012) discussed the benefits of Internet for Romanian accounting students. The authors over in their paper tried to show that how social networking can be thought-about as valuable tools for education.

Gomez et al. (2012) realized in their study that social networking can be used as powerful link between students and professors for academic activities. This study was stressed by another study done by Valerio-Urena and Valenzuela-Gonzalez (2011) who stated that professors should adapt to social networking for their teaching instead of blocking access of social networks for students.

Hu et al. (2011) in their paper, think about factors related to web usage corresponding to effectiveness, information overload and usage expertise. The authors have established the correlation between the gender and perception of quality use of Internet. They have concluded that males having higher perceptions of expertise and quality than females relating to web usage.

Tsitsika et al. (2008) surveyed 897 adolescents in Balkan nation. The findings of study showed that alternative factors corresponding to age and tutorial performance have very little influence on the overall numbers of hours spent on-line. The conclusion drawn from the study was the feminine gender is negatively related to excessive web usage.
Eynon (2005) highlights the importance given to ICT by institution. The paper reflects “the diversity of how ICTs may be utilized in totally different context across the institution”.

On-line teaching tools are useful for distance learners, and are accessible round the clock. Spennemann (2007) has studied the 24/7 internet usage by analyzing the log files of 9 university servers in Australia, and concluded that the bulk of traffic (81%) happens between the work hours (08:00 – 18:00) with another peak happening around 21:00. Bekele and Menchaca (2008) think that usage of Internet in student teaching-learning process provides additional interaction opportunities than the standard teaching, increasing students’ motivation and satisfaction.

Gaytan (2008) explains the teaching process by 5 levels of Internet use which are recognized as best practices:

Level one: using Internet aiming to gather information
Level two: share the information retrieved on Internet with the students aiming at partaking them in extra learning activities;
Level three: students are working on the Internet as part of the lesson plan
Level four: the curriculum prepared by the teacher includes projects and activities that may be accomplished simply by victimization the Internet;
Level five: students are designing their projects based on Internet activities, following an independent learning.

**RESEARCH METHODOLOGY**

**Objectives of Study:**
1. To analyze the most important parameters of internet usage
2. To analyze the most important statements under the most important factor
3. To analyse the relationship between demographic factors and the most important factor of internet usage

It is a descriptive research. Sample size is 221 taken from students in Navi Mumbai. The research used a questionnaire to understand how internet helps students in their studies and other related areas. The sampling was done using convenience sampling with sample primarily taken from students from different UG/PG colleges in Navi Mumbai.

**DATA ANALYSIS AND FINDINGS:**

The study had an overall reliability of 0.75:

| Table 1: Factor Analysis |
|--------------------------|
| **KMO and Bartlett's Test** | |
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | .867 |
| Bartlett's Test of Sphericity | Approx. Chi-Square 2366.930 |
| | df 253 |
| | Sig. .000 |

| Table 2: Rotated Component Matrixa |
|-----------------------------------|
| Component | 1 | 2 | 3 | 4 | 5 |
| Internet helps me in better understanding of the project/assignment. | .236 | .626 | .315 | .034 | .103 |
| I am able to locate the answers of the questions in the project/assignments using the internet. | .193 | .658 | .284 | .000 | .052 |
| There are no compatibility issues while using the internet. | .118 | .638 | .318 | .067 | .097 |
| Internet is a reliable technology to use. | .141 | .440 | .493 | .027 | -.143 |
| I do not need any training to use the internet to complete my project/assignment. | .008 | .723 | .096 | .184 | -.168 |
| Internet is as easy to use technology for project/assignment completion task. | .247 | .630 | .308 | .202 | -.200 |
| I do not need any assistance to use the internet to complete my project/assignment. | .075 | .674 | -.057 | .176 | .084 |
| I use internet frequently. | .063 | .359 | .048 | .729 | -.196 |

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The above table (Table 2) shows the different statements under each component. The factor analysis is good as first table shows the significance as less than 5%. The first component is very important and so it is considered for the analysis. The component consists of different aspects which are oriented towards helpful nature of internet and so it is called as Help. The second component is talking about ease of use and can be named as Ease of Use. The 3rd component talks about the contents and 4th talks about usage pattern. 5th and final component talks about reasons of use. Among this first component is most useful and so all analysis done in this paper is using the first component and statements under that.

Descriptive Statistics and Hypothesis:
The tables below talks about the average of HELP component among different age groups, gender and graduation and post graduation levels.

**Table 3: help * age**

| Help                                           | Mean | N  | Std. Deviation |
|------------------------------------------------|------|----|----------------|
| Age                                            |      |    |                |
| 19-22                                          | 3.7733 | 50 | .78011         |
| 22-26                                          | 3.9379 | 145 | .66896         |
| 26 above                                       | 4.0463 | 18 | .60985         |
| 4                                              | 4.1250 | 8  | .65314         |
| Total                                          | 3.9163 | 221 | .69188         |

**Table 4: help * gender**

| Help                                           | Mean | N  | Std. Deviation |
|------------------------------------------------|------|----|----------------|
| Gender                                         |      |    |                |
| Male                                           | 3.8971 | 115 | .74750         |
| Female                                         | 3.9397 | 105 | .63132         |
| 3                                              | 3.6667 | 1  | .              |
| Total                                          | 3.9163 | 221 | .69188         |
### Table 5: help * ug

| Help     | Mean | N  | Std. Deviation |
|----------|------|----|----------------|
| commerce | 3.8333 | 87 | .74752         |
| BMS      | 4.1111 | 6  | .54433         |
| B. Sc.   | 3.9296 | 97 | .68754         |
| BE       | 4.0200 | 25 | .57599         |
| BCA      | 4.2778 | 6  | .32773         |
| **Total**| **3.9163** | **221** | **.69188** |

### Table 6: help * pg

| Help     | Mean | N  | Std. Deviation |
|----------|------|----|----------------|
| finance  | 3.8374 | 81 | .73785         |
| marketing| 4.1932 | 44 | .66272         |
| biotech  | 4.0000 | 10 | .45812         |
| systems  | 3.8646 | 80 | .67249         |
| HR       | 3.5000 | 6  | .10541         |
| **Total**| **3.9163** | **221** | **.69188** |

### Table 7: help * regular

| Help     | Mean | N  | Std. Deviation |
|----------|------|----|----------------|
| full-time| 3.9009 | 153| .67442         |
| part-time| 3.9510 | 68 | .73362         |
| **Total**| **3.9163** | **221** | **.69188** |

### Tables 8, 9, 10 And 11:

**Hypothesis Test Summary**

| Null Hypothesis | Test                  | Sig. | Decision |
|-----------------|-----------------------|------|----------|
| The distribution of help is the same across categories of pg. | Independent-Samples Kruskal-Wallis Test | .004 | Reject the null hypothesis. |

Asymptotic significances are displayed. The significance level is .05.

**Hypothesis Test Summary**

| Null Hypothesis | Test                  | Sig. | Decision |
|-----------------|-----------------------|------|----------|
| The distribution of help is the same across categories of ug. | Independent-Samples Kruskal-Wallis Test | .303 | Retain the null hypothesis. |

Asymptotic significances are displayed. The significance level is .05.
The tables above show the relationship of age, gender, graduation and post-graduation with respect to the first component namely Age. The output shows that none of the demographic variables have influence on the HELP parameter except in PG courses where there is a difference in rating given to HELP component.

**Table 12: MEAN of HELP statements**

| Statistics                                           | Valid | Missing | Mean  |
|------------------------------------------------------|-------|---------|-------|
| Internet helps me to accomplish my task quickly      | 221   | 0       | 4.05  |
| Internet helps me to improve the quality of work     | 221   | 0       | 4.01  |
| Internet helps me to improve job performance         | 221   | 0       | 3.93  |
| Internet helps me to improve performance             | 221   | 0       | 3.74  |
| Internet helps me to eliminate errors from the       | 221   | 0       | 3.72  |
| assignment/project                                  |       |         |       |
| Internet helps me to enhance effectiveness of my     |       |         | 4.05  |
| assignment/project                                  |       |         |       |

The first component has 6 statements. The table is shown above. The values show that most statements have positive influence. The respondents agree to the most of statements favorably. Statements namely “Internet helps me to accomplish my task quickly” and “Internet helps me to enhance effectiveness of my assignment/project” get maximum agreement.

**CONCLUSION:**

The study shows the most important components and the important parameters under each component. The study is preliminary and it intends to give the most important applications of internet in helping student for their studies. The internet is helping the students in completing the project and assignments on time. It also helps in improving quality of work. The easiness of using internet also helps the student to use it as a tool for improving delivery and performance.

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LIMITATION OF THE STUDY:

The study is limited to Navi Mumbai and sample size is 221 only. The parameters taken may not be exhaustive. The samples are taken using convenience sampling and the study is cross sectional and longitudinal. The observations can be taken for further studies. The analysis is exploratory in nature and not confirmatory. More analysis and literature study can be done on the same to improve on the quality of output.

REFERENCES:

A.Y.M. Atiquil Islam, Magdalena Mo Ching Mok, Qian Xiuxiu, Chin Hai Leng (2018). Factors influencing students’ satisfaction in using wireless internet in higher education: Cross-validation of TSM, Electronic Library. 2018, Vol. 36 Issue 1, p2-20. 19p.).

Bekele, T. A. & Mencachta, M. P. (2008). Research on Internet – Supported learning. A review, The Quarterly Review of Distance Education, vol. 9(4): 373–405

Chen, Y. F. & Peng, S. S. (2008). University students’ Internet use and its relationships with academic performance, interpersonal relationships, psychological adjustment, and self-evaluation, Cyber psychology & Behavior, vol. 11: 467-469

Chittaro, L. & Vianello, A. (2013). Time perspective as a predictor of problematic Internet use: A study of Facebook users, Personality

Eynon, R. (2005). The use of Internet in higher education. Academics’ experiences of using ICTs for teaching and learning, Aslib Proceedings: 168-180

Gaytan, J. (2008). Understanding Teaching with the Internet in Business Education, The Delta Pi Epsilon Journal, Vol. L, No. 1, Winter: 31-44

Gomez, M., Roses, S. & Farias, P. (2012). The academic use of social networks among university students, Comunicar, 19,38; 94-100

Grover, S., Chacraborty, K. & Basu, D. (2010). Pattern of Internet use among professionals in India: Critical look at a surprising survey result, Industrial Psychiatry Journal, Jul-Dec, vol 19, no. 2:94-100

Hu, T., Zhang, X., Dai, H. & Zhang, P. (2012). An examination of gender differences among college students in their usage perceptions of the internet, Education Information Technology, no.17:315-330

IFAC (2003). International Educational Guide – IEG11: Information technology for professional accountants, International Federation of Accountants Education Committee, https://www.imanet.org/pdf/ITPA.pdf, (on-line access: 15th December 2013)

IFAC (2009). Framework for Educational Standards for Professional Accountants, New York, International Accounting Standard Board. http://www.ifac.org/ sites/default/files/publications/files/framework-for-international-1.pdf, (online access: 8th July 2014)

Jha, Subhash (Feb 2008). ICFAI Journal of Marketing Management, Vol. 7 Issue 1, p25-36. 12p.)

Lyu, H-S. (2012). Internet policy in Korea: A preliminary framework for assigning moral and legal responsibility to agents in internet activities, Government Information Quarterly, no. 29:304-402

Machimbarrena JM et. al, Calvete E., Fernández-González L., Álvarez-Bardón A., Álvarez-Fernández L., González-Cabrera J., (Nov. 2018). Internet Risks: An Overview of Victimization in Cyberbullying, Cyber Dating Abuse, Sexting, Online Grooming and Problematic Internet Use, Int J Environ Res Public Health, 5:15(11). pii: E2471. doi: 10.3390/ijerph15112471.

Meeker, M. & Wu, L. (2013). Internet trends, DII Conference 2013, Kleiner Perkins Caufield Byers. www.kpcb.com/file/kpcb-internet-trends-2013 (online access: 5th March 2014)

Niculovic, M., Živkovic, D., Manasijevic, D. & Strabac, N. (2012). Monitoring the effect of Internet use on students: Technical Faculty Bor, University of Belgrade, Educational Tech Research Dev, 60:547-559

Norum, P. (2008). Student Internet Purchases, Family and Consumer SciencesResearch Journal, vol. 36: 573-388.

Robinson, A. & Schlegl, K. (2005). Student use of the Internet for Research Projects: A problem? Our Problem? What can we to about it? PS Online, April 2005:311-315. www.apsanet.org (on-line access: 08th February 2014)

Spennemann, D.H.R. (2007). Learning and teaching 24/7: daily internet usage patterns at nine Australian universities, Campus-Wide Information Systems, vol. 24, no. 1: 27-44

Stanciu, A., Mihai F. & Aleca O. Social networking as an alternative environment for education, Accounting and Management Information Systems, vol. 11, no.1, 2012:56-75

Tan, W-K. & Yang C-Y. (2014). Internet applications.

Tomos, F. Miller, C., Jones, P., Djebarni, R., Oluwlubode, O, Obaju-Falade, P., Nkiruka, H.E., & Asmath, T.
(2013). Impact of Internet Usage on Students’ Academic Performance, Proceedings of the 12th International Conference on e-Learning, SKEMA Business School, *Sophia Antipoli France*, 30-31 October 2013: 470-478, http://issuu.com/acpil/docs/ece12013-proceedingsvol2/170# (on-line access: 10th February 2014).

Tsitsika A., Cristelis, E., Kormas, G., Filippopoulou, A., Spiliopoulou, T., Louizou, A., Konstantoulaki, E. & Kaftezis, D. (2008). Internet use and misuse: a multivariate regression analysis of the predictive factors of internet use among Greek adolescents, *European Journal of Pediatrics*, no.168: 655-665.

Tsvere, M., Tendayi, L., Nyaruwata, T.L. & Swamy, S. (2013). Internet Usage by University Academics: Implications for the 21st Century Teaching.