

The Effect of Facebook on Academic Performance for Undergraduate Students at Charmo University

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ABSTRACT

Facebook occupies an important part of people's time and life due to the recent developments in the field of communication technologies (CT). This paper aims at investigating the Facebook impact (FI) on undergraduate students at Charmo University. Moreover, Facebook also has a great impact on students' life studies at universities. However, in addition to its benefits, Facebook also has some side effects on students' life study. In regard to data collection, an online survey was used in which 15 questions were answered by 100 participants from different faculties at Charmo University. The data collection process was conducted from First of March to 30 of April 2016. The program of SPSS was used to analyze the results of the survey. The results of the current study shows that students spend a significant amount of their times on using Facebook.

Keywords

Facebook Impact, Social network, Facebook usage

INTRODUCTION

Facebook is a social networking website which launched in 2004 by Facebook Inc. it was initially developed by student at Harvard University which was Mark Zuckerberg. Facebook had 1 billion active users around the world in 2012. This number raised to 1.59 monthly active users (Statista, 2016).

Facebook is the leader of the social networking website which has more users compare to other social websites (AKBIYIK, 2013). Facebook has usability to use and user have lots of feature to use in order to share photos, videos. Users also can add new friends, comments and messaging each other's (Servia-Rodríguez et al, 2013).

Facebook has five important advantages which are:

- 1. Students can frequently use it when they are bored.
- 2. It is easy to communicate to others.
- 3. Students feel free and relaxed in the Facebook environment.
- 4. Facebook provide facilities to identify other users.
- 5. It is a public area which can be seen by universities and others.

Despite the benefits of using Facebook, it has side effect on student life in university and particularly studying (Bicen and Cavus, 2011).

Problem

Facebook affects student's life and study at Charmo University. Some Students suffering from using Facebook because of being addicted to it. Facebook also impacts on student's behavior and performance. How Facebook do not let students to focus on their studying. These are problems which has been selected in this paper. Therefore, the aim of this paper is to detect the impact of Facebook on students at Charmo University.

Methodology

1. Participants

100 Undergraduate students participated from different faculties at Charmo University in this study. The sample of the participants was 56 % female and 44% male. The survey was conducted during the 2016 spring.

2. Instruments

Data was collected by using online survey which was created by researchers. The survey includes three sections. The first section includes some question about participants. In the second section was consists of items related to time usage and effecting on studying. The last section was about health risk of using Facebook.



3. Data Analysis

Data was conducted by online survey and then the SPSS program is used to analyze the percentage, frequency and statistical analysis.

Literature review

Facebook impact on physical health and social life

Using Social Networking System (SNS) such as Facebook has side effect on student's health and social life. Using Facebook increase the chance of students to get Upper Respiratory Infection (URI) (Elgendi, 2015). According to the study has been conducted at undergraduate students which looks the history illness of 88 students from age 18-24. These students do not have any illness (Elgendi, 2015). Students had to complete a web based survey and follow up checking the symptom of URI. The survey include some questions related to the stress of being using Facebook. The result shows that 58% students are experiencing URI. The symptom of this disease are runny nose, headache, cough, sneezing and nasal congestion. This study illustrates that increasing rate of URI depends on increasing of using SNS. Facebook stress related to some factors for instance, anxiety because of delaying reply to a friend request, feeling guilty when rejecting friend request or unfriend a friend (Rouis et al, 2011). 31.7% of the students said that leaving Facebook will decrease the stress and anxiety. Also, 43.9% of correspondent stated that using Facebook made social life harder which means it is hard to close to people (Elgendi, 2015).

Using Facebook a lot of time can impact on mental health. Some studies show that using Internet for lots of time make users addiction to it and listed in to game addiction and Internet sex addiction. Spectrum addiction disorder is a concept which is used by some researchers (Elgendi, 2015).

There are two different type of Facebook user such Facebook usage and Facebook addiction (Stieger, 2013). Facebook addiction results in depression, withdrawal, life problem and satisfaction. On the other hand, Facebook usage include looking at new feed, games and chatting. The study shows that Facebook works like a drug in virtual world of communication. One case study demonstrates that 24 year old girl in US had been using Facebook excessively. As a result, she lost her job and become mood and developed insomnia (Koc and Seval, 2013).

Facebook impact on undergraduate students

Facebook is a time stealer. Undergraduate students needs to manage their time in better way while Facebook usage wasting their time. Increasing usage of Facebook will have the side effect on students' performance in university (Kshirsagar and Kulkarn, 2015). According to Kaiser Family Foundation those students who spend less time on using Facebook are better in their grade compare to others. Despite the fact that students admits that Facebook is wasting their time. However, they cannot stop using it (farooqi et al, 2013).

Some students waste much more time on surfing on Facebook to look their friend's picture. According to the research 88% of students look at picture of friends and they feel about it so it changes the feeling of their friends while they want to study. Therefore, it declines the performance of students (Gafni and Deri, 2012). This study show that 65% of students use Facebook two hours per day. There were 103 undergraduate students participated from seven engineering department.

According to a study which 100 students were participated, students were asked how long they use Facebook per day (Bicen and Cavus, 2011). Figure (1) show that 2.24% of participants use Facebook one hours a day, 28% of them use it for two hours, 16% use Facebook for more than three hours a day, 32% use Facebook for more than four hours a day.

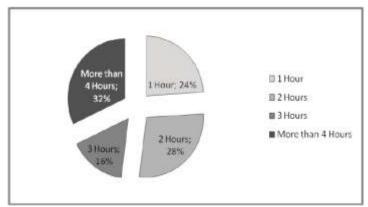


Figure 1 Distribution of Facebook usage habits of student's hour/day

Result and discussion

Basic analysis of the survey

The survey was answered by 100 students from different colleges at Charmo University. Participant gender were 56% female and 44% male.



The graph shows the students' stage which they responded to the online survey. The percentage of students' first stage was 56%, second stage 3%, third stage 10% and fourth stage 31%. Another question was how many years you used Facebook, the answer was 16% is used for 1 to 6 months, 8% is used for one year, 19% is used for two years and 57% is used for 4 years or more. Students were asked the habit of using Facebook usage to estimate the average number of hours to surf Facebook per day. 20% of students are using Facebook less than half an hour while 16% of them using Facebook more than 4 hours (1=2 40, 3-24). Next question was did Facebook has bad impact on your grade? The response was 29% of students' grade are affected by Facebook, 35% of them are not affected and 36% of them are affected but not in a high degree.

The students were asked how many times that undergraduate students used Facebook at late night the response was 61% of them used it sometimes, 22% of them used for many times, 11% of them were not using it and 6% of them always using it. (Q8) 42% of them used Facebook sometimes during their study, 33% of them were not used it, 22% of them responded that they used it and 3% of them mostly used it. (Q9) related to the students study undergraduate students may need sometimes to back to their study after using Facebook. Therefore, 59% of them was not need any time to get back to study while 29% of them needed half an hour, 9% of them required 1 hour and 3% required more than 2 hours.

(Q10) students were asked if they want to reduce their Facebook usage. The result shows that 42% of the students tried to reduce their time to surf on Facebook so they succeed. However, 25% of them tried to decrease Facebook usage. As a result, they could not decrease their Facebook usage. In addition, 33% of them never tried to reduce their Facebook usage. (Q11) the study also found that 67% of undergraduate students will reduce their Facebook usage while 29% of them will use it same as before. (Q12)The most preferred Facebook tools usage habits of students. %23.2 of the correspondent use Facebook for sociality. Some of them want to communicate with their friend by 60%. Approximately 8% is using it for making new friends and 46% use it for educational purpose. Some of them use it for spending time and for fun by 25.3%, 29.5% respectively.

(Q13) students were asked about impact of Facebook usage on their eyes. 67% of them have side effect on their eyes, 28% of them do not know if they have eye problems and 5% of them do not have it.

(Q14)The study found that 46.5% of them has headache while 53.5% do not have it. (Q15) 26.3 of the students were determined as an addiction user on Facebook while 73.7% of them are not addicted.

Advanced analysis of the survey by SPSS

A one-way ANOVA was conducted to compare the effect of FB usage on undergraduate students' academic performance at Charmo University. The reason of using ANOVA is, The ANOVA is an essential test because it allows researchers to see for example how effective two different kinds of treatment are and how durable they are (Chandrakantha, 2014).

The result of the Effect of Facebook on academic performance for undergraduate students based on the survey, are divided into three parts depended on types of factors.

1. Effect of gender

Gender is one of the factors that has been considered in the survey. Gender as a factor is tested versus all dependent variables. Table 1 shows that the effect of gender on eyelmpact is significant because the p value is less than .05, f (1, 98) = 8.347, p= .005. Therefore, female has more eye problems than male due to FB usage.

Table 1 ANOVA between gender and eyelmpact

ANOVA

eyelmpact

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6.263	1	6.263	8.347	.005
Within Groups	73.527	98	.750		
Total	79.790	99			

2. Effect of age

Participants who have used FB for years (yearUsage), age parameter has impact on it. Therefore, the analysis of ANOVA revealed a significant difference, f (2, 97) = 7.077, p = .001. Figure (1) illustrate the significant value of age upon yearUsage.



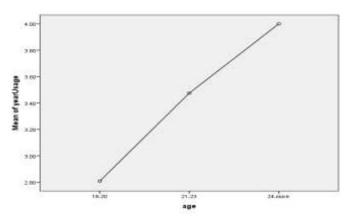


Figure 2 Means plot age vs yearUsage

Participants who have used FB during their study (studyUsage) have a significant differences depends on the age parameter, f(2, 97) = 5.602, p = .005.

3. Effect of stage

The stage factor has a great impact on the study due the significant result.

In the table 1, 2 show the effect of stage on yearUsage and studyUsage with the p-value (.031, .008) respectively.

Table 2 ANOVA between stage and yearUsage

ANOVA

yearUsage

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	11.076	3	3.692	3.081	.031
Within Groups	115.034	96	1.198		
Total	126.110	99			

Table 3 ANOVA between stage and studyUsage

ANOVA

studyUsage

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	7.868	3	2.623	4.135	.008
Within Groups	60.882	96	.634		
Total	68.750	99			

Moreover, the stage also has the impact on the headache based on the survey.

Table 4 ANOVA between stage and headache

ANOVA

headache

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.612	3	.871	3.748	.014
Within Groups	22.298	96	.232		
Total	24.910	99			



Conclusion

There are three factors has been considered in the survey such as stage, age and gender while there are a lot of dependent variables. Some essential points are obtained from the advanced analysis of the survey which are presented below:

- 1. Stage has the greatest impact as independent variable. The second and third are age and gender respectively.
- 2. The effect of stage is gradually increased on yearUsage, studyUsage and headache from first stage to fourth stage (shows in figure 3,4,5 in appendix)
- 3. The effect of age is dramatically raised on yearUsage and studyUsage from age if 18-20 to 24-more.
- 4. The third impact is gender which has an impact on eyelmpact variable. Therefore, female has more eye problems than male due to FB usage.

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Appendix

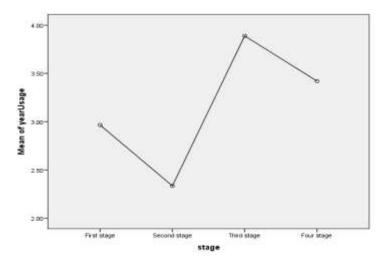


Figure 3 Means plot stage vs yearUsage

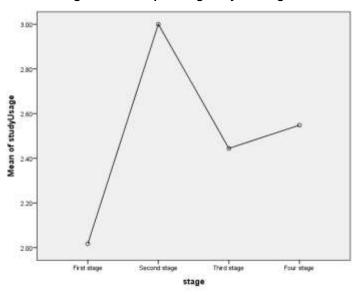


Figure 4 Means plot stage vs studyUsage

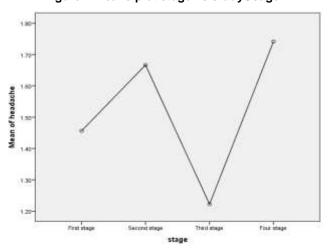


Figure 5 Means plot stage vs headache