Impact of Social Media Usage on Academic Performance of University Students in Enugu Metropolis

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Abstract

The use of social media has affected communication between people in the past decade. This paper tries to examine the influence of social media on the academic performance of the undergraduate students in Enugu metropolis. It focuses on extent and frequency to which undergraduate students use social media. The study adopted a survey research design. A close-ended questionnaire was designed to address the key issues in the research. Three tertiary institutions were used for the study. The data collected was analyzed using percentages. The hypotheses were tested using regression and correlation analysis. The findings show that undergraduate students in Enugu metropolis have access to social media. It also shows that majority of them were active users ofFacebook, Twitter, BBMand Whatsapp. The findings also revealed that the success of a student is weakly related to social media used but strongly related to the time spent and social media used. As a result the paper recommends that students should minimize social media use in order to increase their academic performance, students academic advisers should guide the students on sites that will assist them in their academic work since they are closer to the students.

Keywords: Social Media, Academic Performance, Undergraduate Students, Technology

Introduction

In the 21st century, education has shifted to a technology Grunwald, &Vockley,2011). based which is one of the most rapid growing facilities in the world today. Therefore, social media (networking) Given the popularity of social media, a number of the creation and exchange of user-generated content." (Kirschner & Karpinski, 2010). Social media, as defined by Bryer & Zavatarro (2011), "are technologies that facilitate social interaction, make Addiction to the usage of social media has extremely

them are college students (Dahlstrom, de Boor,

technology is an integrating tool of education that Universities are using them as marketing program and as improved national development in the education sector. a means of communication with current and prospective Social media have affected communication between students and also the alumni. University professors are people in educational community positively since the embracing the social media for effective discussions and past decades. Now, life is made easy by this media for dealing with their students in matters relating to development academically, socially, and politically for academics and improving learning benefits through anyone that is connected to it. As a result, Andreas & better communication within and outside the classes. Michael (2010), refer to social media as "a group of However, recent reviews show over-participation or Internet-based applications that build on the ideological addiction of students to social networking may have a and technological foundations of Web 2.0, and that allow negative impact on their academic performance

possible collaboration, and enable deliberation across increased in recent times. The perils of its effects on the stakeholders". These technologies now include blogs, academic performance of the over-involved students are wikis, media (audio, photo, video, text) sharing tools, disturbing. It is a common sight to see a youth chatting in networking platforms, and virtual worlds. Social Media sensitive and highly organized places like church, Online (2011) defines social media as primarily mosque and lecture venues. Some are so carried away internet-and mobile-based tools for sharing and that even as they are walking along the high way, they discussing information by users. Social media is keep chatting. The manufacturing and distribution of generally used on a regular basis by millions of people equally sophisticated cellular phones has complicated across the globe for different reasons. A big portion of the situation, as youths no longer need to visit a social media users is made up of youths where most of cybercafé before they send and receive messages. Attention has been shifted from visible to invisible perceived that school grades will suffer when spending academic work of students in the Universities. too much time on social sites such as Facebook, Twitter and My space as valuable study time is lost (Karpinski, This view is however rejected by some researchers who academic be answered.

Objectives of the Study

media networks:

- metropolis; and
- Universities in Enugu metropolis.

Scope of the Study

Universities.

Literature Review

Many scholars have carried out general studies of web technology impact on academic achievement of students. Methods The progressive and destructive impacts of technology The study adopted a survey research design. The three

friends, while important ventures like study and writing direct their wards to sites that will assist them in their are affected in the process. This phenomenon has academic works. Some other researchers however, become a source of worry to many who believe in discovered that there is no relationship between the use knowledge and skill acquisition. Kirschner & Karpinski, of computers (social media) and students' academic (2010) observed that academic performance which is achievement. Similarly, Onyeka, Sajoh & Bulus (2013) depicted by the grades of students is a great concern, argue that the frequent use of social media sites has no students that spend excessive time on social networks negative effect on the students' studies. In the same vein, become dependent on it and it is believed that their Ogedebe, Emmanuel & Musa (2012) posited that academic performance diminishes proportionately. It is Facebook usage does not have adverse effect on the

& Duberstein, 2009). This has spurred discussion among acknowledge that social media sites do not enhance their faculties, across disciplines and from various schools in academic performance. For example, Moon (2011) in a relation to the effectiveness and stability of social media study on "impact of facebook on undergraduate as a teaching tool. These therefore necessitate the study academic performance", averred that social media have on the effects of social media usage on University negative impact on students. According to the result, the performance, whether these more students use facebook, the more it affects their opportunities promote studies is a question that needs to academic performance. Similarly, Oye (2012) notes that most of the younger students use social networking sites mainly for socializing activities, rather than for academic purpose. Oye (2012) further observed that most of the The study is guided by the following specific objectives: students do feel that social networking sites have more 1. To determine whether undergraduate students of positive impact on their academic performance. In Universities in Enugu metropolis have access to social another study conducted by Shana (2012), it was revealed that students use social network mainly for 2. To determine the frequency of use of social media making friends and chatting. The result showed that only sites by undergraduate students of Universities in Enugu 26 percent of the students (respondents) indicated that they use social media for academic purpose.

3. To determine the extent of social media use by Also a growing number of Nigerian scholars agree that undergraduate students in Universities in Enugu addiction to social media sites are potentially a disruptive technology to students' academic work in 4. To ascertain the influence of social media use on the higher education. Among them is Oluwatoyin (2011) academic performance of undergraduate students in who surveyed 1,860 Facebook users from the Lagos State University and found that most of the students could not get cumulative grade point average (CGPA) above 3.50 because they've spent large part of their time The work is limited to University of Nigeria Enugu on social media than on their home work and study time Campus (UNEC), Enugu State University of Science and which could contribute to higher grade. Oluwatoyin's Technology (ESUT), and Godfrey Okoye University findings is further supported by Ajewole & Fasola (GOU) which spans through federal, state and private (2011) whose study of 884 students from eight higher institutions in Oyo State showed that majority of them spend more time on social media at the detriment of their studies.

on achievement were documented. Researchers like tertiary institutions that were used for the study are Hunley, Evans, Delgado-Hachey, Krise, & Schell, University of Nigeria Enugu Campus (UNEC), Enugu (2005) examined the effect of technology on children's State University of Science and Technology (ESUT), early stage learning. The authors discovered a positive and Godfrey Okoye University (GOU). The sample impact of technology on learning but seriously advised selected using purposive sampling technique are one parents to watch the activities of their wards when using hundred and fifty students (150), (fifty (50) students in Internet technology. Parents were further advised to each school). The study focused on eight (8) social

social networks (BBM, Whatsapp, 2go, and Facebook) were selected and used for the analysis based on the frequency of usage. The study was restricted to undergraduate students of the selected Universities. A close-ended questionnaire was designed to address the key issues in the research. The research used a paper-based survey and was conducted with the cooperation of level coordinators/registration officers of the selected departments. This was done to ensure accuracy and to know the exact CGPA's of the respondents'. Participation was voluntary for all the students. Students from (3) departments participated: Business Management, Accounting and Marketing. The data collected was analyzed using percentages. The hypotheses were tested using regression and correlation analysis.

Result and Discussion

The analyses show that the respondents were made up of 150 students, 66(44%) males and 84 (56%) females. The distribution according to the level of study indicated the following: 100 level (5%), 200 level (22%), 300 level (27%) and 400 level made up the last 46% of the respondents

Access to Social Media

The data in table 1 below shows that the respondents have access to social media. All the respondents agreed that they have access to social media.

Table 1: Access to social Media Sites

	Frequency	Percent	Valid percent	Cumulative
				percent
Yes	150	100.0	100	100
No	-	-	-	-
Total	150	100	100	

Time Spent Per Day Using Social Media

In examining the amount of time spent by those using social media, 4 representing 3% of the respondents indicated they spent less than one hour per day; and 21 representing 14% of the respondents indicated they spent between one to two hours per day using social media. Overwhelmingly, 110 respondents representing 73% of the respondents revealed that they were always active. This is made possible by the sophisticated handheld devices that are connected to the internet 24 hours a day. Table 2 provides a summary of responses to this question.

networks used frequently by students. Four (4) of the Table2: Time Spent Per Day Using Social Media

Frequency	Percent	
Less than 1 hour	4	3
1 -2 hours	21	14
2-3 hours	4	3
4-10 hours	6	4
Always active	110	73
Missing	5	3
Total	150	100.0

Social Media use by respondents

Table 3 below demonstrates the distribution of social media use among the students. Majority of them were active—users of 3 or more—social sites. Facebook, Twitter, BBM and Whatsapp accounted for 77% of the respondents.

Table 3: Social Media Use By Respondents

Social Media	Frequency	Percent
FB	56	37
Twitter	20	13
2go	10	6
BBM	30	20
Gtalk	3	2
Windows live	-	-
Skype	-	2
Whatsapp	31	20
Total	150	100

Table 4 below shows frequency distribution of CGPA (Academic performance) of the respondents. It shows that 71(47.33%) has a CGPA of 1.00-2.44,47(31.33%) a CGPA of between 2.45-3.49 and 32(21.33%) a CGPA of between 3.5-4.49.

Table 4: Frequency distribution of CGPA (Academic performance) of the respondents

CGPA	Frequency	Percentage (%)
0-0.99	0	0
1.00-2.44	71	47.33
2.45-3.49	47	31.33
3.5-4.49	32	21.33
4.5-5.0	0	0
TOTAL	150	100

Test of Hypothesis

To test the hypotheses, dummy variable regression analyses were carried out. Dummy variables were introduced due to the level of measurement of time spent on social media and the social media use. Time spent on social media and the social media used.

Hypothesis 1

 H_{01} : there is no significant relationship between academic performance of university students and the time spent on social media.

Relationship **Table** 5: between academic performance of university students and the time spent on social media.

		В	Std. Error	Beta	T	P Value
R ²	F (P value)					
١.	181 ' 8.012 (.000)					
bt		2.347	.081		28.965	.000
b2		.263	.207	.098	1.271	.206
bs		.533	.289	.140	1.840	.068
b4		.314	.289	.083	1.084	.280
b 5		1.010	.183	.426	5.528	.000

The model summary offers the multiple correlation coefficient R and coefficient of determination (R²) for the regression model. From the result R = 0.425 and $R^2 = linear$ success of a student is strongly related to the time spent on social media they use. However there is still a lot of as F = 8.012 and p < 0.000.

As regression results show, the mean CGPA of students Skype is statistically insignificant higher by 0.284. that are always active on social media is 2.35, that of students which spent 4-10 hrs is higher by 0.263, that of **Hypothesis 3** students which spent 2 - 3 hrs is higher by 0.53 3, that of H_m: there is no significant relationship between students which spent 1 - 2hrs is higher by 0.314 and that of students which spent < lhr is higher by 1.010. It can also be seen that only the estimated coefficient of students which spent < lhr is statistically significant, as its p value (0.000) is less than 0.05 level of significance. Other estimated coefficients are not significant as their p values are greater than 0.05. Therefore, statistically the mean CGPA of students that always active and spent <1 hr are about the same but the mean CGPA of students that spent <1 hr statistically significantly higher by 1.010.

Hypothesis 2

H₀₂: there is no significant relationship between academic performance of university students and the social media use.

Table 6: Relationship between academic performance of university students and the social media use.

	R ²	F (P Value)	В	Std Error	Beta	t	P value
	.011	1.572 (.212)					
b1			2.547	.074		34.490	.000
b2			.284	.226	.103	1.254	'.212

H,,2: there is no significant relationship between academic performance of university students and the social media use.

From the result R = 0.103 and $R^2 = 0.011$ which indicates that 1% of the variance in CGPA (academic performance of university students) can be explained by our regression model. In order words the success of a student is weakly related to social media used. Our model (the regression equation between 0.181 which indicates that 18% of the variance in CGPA performance of university students and the social media (academic performance of university students) can be used) do not predict the academic performance of explained by the regression model. In other words the university students accurately as F = 1.572 and p = 0.212.

variation in outcomes between academic performances As these regression results show, the mean CGPA of of university students that is not related to time spent on students that use Facebook, Twitter, BBM and Whatsapp social media. Our model (the linear regression equation is 2.547 and that of students which use 2go, Gtalk, between academic performance of university students Windows Live, Skype is higher by 0.284. Therefore, and the time spent on social media) predicts the statistically the mean CGPA of students that use academic performance of university students accurately Facebook, Twitter, BBM and Whatsapp and 2go, Gtalk, Windows Live, Skype are not the same but the mean CGPA of students that use 2go, Gtalk, Windows Live,

academic performance of university students and the time spent on social media and the social media use.

Table 7: Relationship between academic performance of university students and the time spent on social media and the social media use.

В	Std R ²	Error Beta t F (P Value)		P value			-
bi .182		6.388 (000)	2.343	.083	28.269	.000	
b2			'.256	.209	.0951.228	.222	
b 3			.537	.291	.141 1.849	.067	
b4			.319	.291	.0841.096	.275	
b5			.998	.188	.421 5.317	.000	
b6			.066	.215	.024.305	.761	
100							

The result reveals that R = 0.426 and $R^2 = 0.182$ which indicates that 18% of the variance in CGPA can be explained by our regression model. In other words the success of a student is strongly related to the time spent and social media used. However there is still a lot of variation in outcomes between academic performances of university students that is not related to the time spent Bryer, T., & Zavattaro, S. (2011). Social media and and social media used. Our model (the linear regression equation between academic performance of university students and the time spent and social media used) predicts the academic performance of university students accurately as F = 6.388 and p < 0.000.

From the results of the coefficient for model and significance, we have

As these regression results show, the mean CGPA of students that spent 4 - 10hrs is higher by 0.256, that of students which spent 2 - 3hrs is higher by 0.537, that of students which spent 1 - 2hrs is higher by 0.319 and that Flad, K. (2010). The influence of social networking of students which spent < lhr is higher by 0.999 when social media used is being controlled. Also the mean CGPA of students that use 2go, Gtalk, Windows Live, Skype is higher by 0.066 when time spent is being controlled. Only the estimated coefficient of students which spent < lhr is statistically significant, as its p value (0.000) is less than 0.05 level of significance. Other estimated coefficients are not significant as their p values are greater than 0.05. Therefore, statistically the mean CGPA of students that always active and spent <1 hr are about the same but the mean CGPA of students that spent <lhr statistically significantly higher by 0.998.</p>

Conclusion and Recommendations

From the data collected and analyzed, it can be concluded that University undergraduate students in Enugu metropolis are exposed to the use of social media. This is shown by the amount of time spent on social media and the frequency of visit has a statistically Kirschner, P. A., & Karpinski, A. C. (2010). Facebook significant relationship with a student's academic performance. Our analyses strongly support our inference and show that if access to social media is restricted and controlled, and the idle time is rather channeled into studying, this will greatly improve Moon, A. L. (2011). Impact of facebook on students' performance. The study recommends that students should minimize social media use in order to increase their academic performance and students academic advisers should guide the students on sites that will assist them in their academic work since they are Ogedebe, P. M., Emmanuel, J. A., & Musa, Y. (2012). A closer to the students.

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