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(ICVIAS) 2018**

*" Sustainable Vocational Studies In Business, Engineering And Health For
Global Advancement And Competitiveness Of The Nation "*

Surabaya, October 17, 2018



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Forum Pendidikan Tinggi Vokasi Indonesia

ICVIAS 2018

Proceedings of the 1st International Conference on
Vocational Innovation and Applied Sciences

FACULTY OF VOCATIONAL STUDIES
UNIVERSITAS AIRLANGGA



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Global Advancement and Competitiveness of the Nation”*

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[BUS 1050]

Analysis of The Use e-journal by Student in Airlangga University Indonesia

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Abstract. The purpose of this research project is to explore and determine the use of commercial e-journal that library is subscribed Library by the students in Universitas Airlangga Indonesia. and the obstacles which were faces by the students in using the e-journals. The data collection was done using structured questionnaire and through interviews with students and librarians. The 380 respondents were gained using Yamane formula. Data processing and data analysis both used SPSS and content analysis. The use of e-journal subscribed by library in UNAIR is 66.8% and 33.2% have not used because they prefer to use journals on the internet using search engine facilities like google, where the journal is open source. Based on data, campus becomes the most visited place by the students to access e-journal. The use of e-journal for classes is the students' top reason and purpose. Based on the findings and analysis, it could be concluded that many of Universitas Airlangga students make use of the provided e-journals in the university library. However, the usage of commercial journals is still considered to be never, scoring only 1.32 from 1-4 range of score. This is caused by several obstacles such as slow internet connection, locked journals because they have not yet been subscribed, not knowing how to access the journals, and even language barrier.

Key Words: e-journal, use e-journal, subscribe journal, academic library, commercial journal.

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Introduction

Library is one of the important learning facilities. It provides a variety of collections, both printed and digitalized. The digital collection that is developed by the library is a kind of innovation to make it easier for the librarians to access the information needed. This includes the information-seeking behavior from the students in which their needs in doing homeworks, reports, and researches are usually done by using the internet. Studies done by Sumitro (2017), Eviliyana (2015) and Azwar and Amaliah (2017) show that students use the internet more often for their academic needs.

E-journal is one of digital collections owned by the library. Both printed and online journals are the most used references as the foundation in doing a research in higher education, because the published materials are the most current ones or the results from various studies. The journals are also a medium for the academicians in improving their skills in scientific development. One way to obtain the journals is through the library. Therefore, the existence of scientific journals is obligatory in the library of higher education (Yahya, et al.,2013). The journals also provide newest information from various studies which are related to the theme of the study to make it possible for the students to obtain the information regarding a new theory which can be used as a reference

and implement the students to make a new research, different from the previous ones (Ramamoorthi and Jeysankar, 2016).

Nowadays, many libraries of Indonesian university allocate its funding in purchasing the e-journals (Sumitro, 2017). Rebecca England (2013) in her study show that library completed their e-journal collections by purchasing it from regional and national levels. It takes no small amount of money to complete the e-journal collections in the library, besides, the library also needs to take time to socialize it to the students and the other academicians to be accustomed in making references in electronic forms. According to Irman Siswadi (2008), the process until the e-journal can be accessed by the users needs some aspects which have to be considered in order to make an efficient funding in subscribing the e-journals.

Universitas Airlangga (UNAIR), as one of the best universities in Indonesia, allocates 80% from its funding to subscribe electronic journals (Srirahayu, 2018) which can be accessed by the students through the website of the library. E-journals in the library of UNAIR is adequate, meaning its information system resources already include hardware, software, data, and network resource to support the implementation of e-journal services; besides, e-journals are also easy to use and can fulfill the information needed by the users (Aditya, 2016). Base on the introduction, the objectives of the study are 1) to explore and determine the usage of e-journals by the students of UNAIR and 2) the obstacles which were faces by the students in using the e-journals.

Research Methods

To answer those questions, the researchers make a structured questionnaire for the techniques of data collection. The questionnaire was given to 390 students of UNAIR randomly. UNAIR is the oldest university in eastern Indonesia, which has 14 faculties (medicine (FK), dentistry (FKG), pharmacy (FF), veterinary (FKH), nursing (FKP), Science and Technology (FST), Fisheries and Marine Affairs (FPK), Public Health (FKM), Nursing (FP), Economics and Business (FIB), Cultural Sciences (FIB), Faculty of Law (FH), Social Science and Political Sciences (FISIP), Psychology (Fpsi), and Vocational (FV)) and 1 postgraduate school with the number of students is 55.056. Faculty taken in this research is faculty with level of undergraduate amounted to 13 faculty, whereas faculty of vocation is faculty with diploma education level and graduate school devoted to master and doctoral with the total population is 49.056. The total of respondents was based on the Yamane formula with a population of 49.056 students and the precision used was 5%, thus the total respondents were 380 people. All questionnaire are returned and valid. Following that, the collected data was processed by using SPSS and then analyzed to create a conclusion.

Result

Characteristics of Respondents

This study uses 380 respondents with the following characteristics: 63.3% respondents from the range of age between 16 and 20 years old, 34.2% from the range of age between 21 and 25 years old and 2.5% the age of respondents more than 26 year. 21.8% respondents are male and 78.2 respondents are female. From all 380 respondents, 36.4% were from the first year, 18.2% were from the second year, 28% were from the third year, 15.4% were from the fourth year, and 2% from the fifth year.

The usage of e-journal that is subscribed by the library

The use of e-journal subscribed by library in UNAIR is 66.8% and 33.2% have not used because they prefer to use journals on the internet using search engine facilities like google, where the journal is open source. The publication of open source is increasing, researchers are now more choosing to publish their research into open source journals (Assimina and Christine, 2010).

Age, sex, and level of student affects the level of use of e-journals at the university airlangga, this can be seen from the results from crosstab of use e-journal*age; use e-journal*level student; use e-journal*faculty; and use e-journal*sex. Crosstab results showed that male students more access to e-journal than female students. The others results from the crosstab are more oldest of students and more higher the level of student then the use of e-journal is also increasing. This result is in line with research conducted by Nicholas, Peter and Ian (2010) which shows that one finding which stands out is that nearly half (46.0%) of year 3 and 4 undergraduates use journals 'most days', emphasizing the heavy use of this resource which is made by the student community.

Table 1. The Used of commercial e-journal in library

Journal name	Very often	Often	Seldom	Never	Average
Proquest	5	51	56	268	1.46
SpringerLink	7	24	55	294	1.33
Aunilo	4	16	56	304	1.26
EBSCO	14	30	61	275	1.43
ScieneDirect	32	37	46	265	1.57
Emerland	7	27	49	297	1.33
Sage journal online	13	35	55	277	1.43
IG Publising	4	16	53	307	1.26
Wiley online library	8	26	45	301	1.32
J STOR	5	17	47	311	1.25
AHPC	5	14	48	313	1.24
Aquaculture	7	17	46	310	1.27
Compendium					
SAGE Research	11	24	56	289	1.36
Method					
Micromedex Free Drug	1	17	51	311	1.23
Reference					
Oxford Academic	19	40	59	262	1.52
Journal					
Nature	5	16	55	304	1.27
Cambridge University	13	33	56	298	1.40
Press					
Total Average					1.38

Note: Average 1.00-1.75 never ; 1.76-2.50 seldom; 2.51-3.25 often; 3.26-4.00 very often

The library of UNAIR has subscribed several e-journal (table 1), it is taken that the average 1.38. Using the range that has been made then the level of use of e-journals in airangga universities into the category never used (1.00-1.75). Base on the research that have done In Indonesia, the usage of e-journal by university students is still considered to be very low. The research done by Sri Purwaningsih¹² was found that 25% of the citation is quoted from journals (printed and online), 41% from books, and the rest was taken from sources such as papers, website, proceedings, constituons, and other sources. The research done by Harisya (2015) shows that the effectivity of e-journal usage in Universitas Hasanuddin Makassar Indonesia can not be considered as effective. Similar thing happens in India (Ramamoorthi and Jeysankar, 2016) not more that 20% journals subscribed in unviersities are being used by researchers in India.

This is in contrast to the results of research conducted by Nanda (2017) that the high awareness level of journals is 80% and 51.78% of students use e-journal every day. Research result from Faizul and Naushad (2012) show that the most of the users are aware of e-journals and they use e-journals not just for upadate science but also for using informassi that can be used for their study.

Places that are frequently visited by students to access e-journal

Students are also able to access e-journals wherever they are, not only in the library. For instance, they can access it around the area campus, faculty buildings, at home, or anywhere else. Based on data, campus becomes the most visited place by the students to access e-journal; 41.3% students prefers in the campus area or faculty building than any other places. 37% students access e-journal in library. Students can access e-Journals that are subscribed by libraries of UNAIR outside the library or campus by registering their laptops/notebooks to the library to get the id that will be recognized by the journal as the university id.

The reason and purpose behind e-journal usage

There is a reason behind everything, including students' reason in accessing e-journals. The use of e-journal for classes is the students' top reason and purpose, as much as 75.6% students need e-journal for their classes. 15% students use it for their undergraduate thesis. 6.3% students access e-journal to update the information that they previously had. While 3.2% students make use of e-journal because the information needed can hardly be found in the library.

Journals are largely used for studies and research because there are many researchers who publish their works in journals and the majority of research scholars use e-journals for the purpose of student research work (Anil et al, 2014; Nicholas et al., 2010). The result gained from the interview regarding the reason and purpose of UNAIR students in using e-journal is in accordance with the research conducted by Anajoyce (2016) and Humphrey and Goodluck (2014). The electronic journals are used for searching new information, users indicate the functions and features preferred in electronic journals (A.N. Zainab et al, 2007).

Obstacles in the usage of e-journal

Base on the data, it could be taken that basically there is no certain obstacles from the e-journal itself, for 32.7% of the students claimed that they encounter no obstacle in accessing it. However, 20.9% admits that the slow internet connection prevent them from accessing it easily; the e-journal they would like to read is unable to be opened due to it being locked and requires

password; indicating that there are certain subjects that are not subscribed by the university library, but are actually needed by the students (16.5%), of students do not know how to access e-journals (11.8%), and unable to find journal with certain topics (11%). This is due to the lack of socialization and training from the university in terms of e-journal usage, from the data it can be show that 43.4% students learn to use e-journal by themselves without any external help. Language barrier also becomes an obstacle in its usage (3.9%). This is solely caused by the language that is used in commercial journals is an international language, and Bahasa Indonesia is considered as an international language; and the limited number of computer (3.1%). Another research show the same obstacles faced by students in using e-journal like: limited access to computer, low bandwidth, lack of training (Rekha and margam, 2009; Anajoyce, 2016; faizul and naushad, 2012; Anil et al., 2014), and the difficulty in browsing the searching method used to access the e-journal (Anil et al., 2014).

Yahya (2013) explains that there are several ways to increase the use of e-journals in college such as by giving more training for the academic, sharing more information about e-journals, as well as encouraging the use of e-journal in teaching and learning. There are also some reasons that users not use e-journal because of the complex appearance and the difficulty of locating the information they need. They want such a google display it is also realized by the librarian that the importance of Internet search engines as the first source of information for academics such as google who can get information on the internet in one click, but they fail to provide information to users with a single interface for all information products (Candela and Ángel, 2010).

Conclusion

Based on the findings and analysis, it could be concluded that as much as 66.8% of UNAIR students make use of the provided e-journals in the university library. However, the usage of commercial journals is still considered to be never, scoring only 1.32 from 1-4 range of score. This is caused by several obstacles such as slow internet connection, locked journals because they have not yet been subscribed, not knowing how to access the journals, and even language barrier. Some students are still unable to access the journals due to the lack of socialization and training given by the library in terms of e-journal usage. The training is only done once in the new semester, and will be held again if there is any request. This can be seen from the 43.4% of respondents that learned how to access journal by self-taught.

Reference

- Aditya, R. (2016), "Analisis Akses Jurnal Elektronik Perpustakaan Universitas Airlangga Bagi Mahasiswa Universitas Airlangga", Graduate theses, Fakultas Ilmu Sosial dan Politik, Universitas Airlangga, Indonesia.
- Anil K. Makkini and Pulla R. (2014), "Use of E-Journals by Research Scholars in University Libraries in Andhra Pradesh", *Library Philosophy and Practice (e-journal)*, Vol.2014 No.32. <http://digitalcommons.unl.edu/libphilprac/1086>

- Anajoyce Samuel Katabalwa, (2016) "Use of electronic journal resources by postgraduate students at the University of Dar es Salaam", *Library Review*, Vol. 65 Issue: 6/7, pp.445-460, <https://doi.org/10.1108/LR-11-2015-0108>
- Assimina Vlachaki, Christine Urquhart, (2010) "Use of open access journals in biomedicine in Greece", *Library Management*, Vol. 31 Issue: 1/2, pp.19-26, <https://doi.org/10.1108/01435121011013368>
- Azwar M and Amaliah R (2017), "Pemanfaatan Jurnal Elektronik Sebagai Sumber Referensi Dalam Penulisan Skripsi Di Institut Pertanian Bogor", *Libraria*, Vol.5 No.22, pp.23-37. <http://journal.stainkudus.ac.id/index.php/Libraria/article/download/2311/pdf>.
- Candela Ollé, Ángel Borrego, (2010) "Librarians' perceptions on the use of electronic resources at Catalan academic libraries: Results of a focus group", *New Library World*, Vol. 111 Issue: 1/2, pp.46-54, <https://doi.org/10.1108/03074801011015685>
- England R (2013), "An investigation into the move towards electronic journals: a case study of NHS libraries in Kent, Surrey and Sussex", *Health Info Libr J*, Vol.30 No.3, pp.241-244. DOI: 10.1111/hir.12035.
- Eviliyana I and Arfa M. (2015), "Perilaku Pencarian Informasi Mahasiswa Asing Peserta Darmasiswa Republik Indonesia Tahun Akademik 2014/2015 Universitas Diponegoro", *Jurnal Ilmu Perpustakaan*, Vol.4 No.3, pp.65-78 <https://media.neliti.com/media/publications/103331-ID-none.pdf>
- Faizul Nisha, Naushad Ali P.M., (2012) "Awareness and use of e-journals by IIT Delhi and Delhi University library users", *Collection Building*, Vol. 32 Issue: 2, pp.57-64, <https://doi.org/10.1108/01604951311322039>
- Harisyah (2015), "Efektivitas Pemanfaatan Jurnal Elektronik oleh Mahasiswa Fakultas Kedokteran Universitas Hasanuddin Makassar", Graduate theses, Fakultas Adab Dan Humaniora Universitas Alauddin Makassa, Indonesia. <http://repositori.uin-alauddin.ac.id/2482/1/Harisyah.pdf>.
- Humphrey O N and Goodluck I. (2014), "The Use of Electronic Journals by Lecturers: A Case Study of University of Ibadan", *Nigeria International Journal of Education and Social Science*, Vol.1 No.1, pp.66-73. <http://www.ijessnet.com/wp-content/uploads/2014/08/8.pdf>
- Nanda A. (2017), "Use and Awareness of E-journals by the Faculty and Research Scholars of Veer Surendra Sai University of Technology", *Journal of Library & Information Technology*, Vol.37 No.4, pp.274-280 DOI: 10.14429/djlit.37.4.10871
- Nicholas D, Williams P and Rowlands I, Researchers' e-journal use and information seeking behaviour, *Journal of Information Science*, 36 (4) (2010) 494–516 DOI: 10.1177/0165551510371883
- Purwaningsih S. (20116), "Pemanfaatan E-journal oleh Mahasiswa : Kajian Analisis Sitasi Terhadap Tesis Mahasiswa Klaster Saintek Universitas Gadjah Mada", *Jurnal Berkala Ilmu Informasi dan Perpustakaan*, Vol.XII No.2, pp.5-22.
- Ramamoorthi P and Jeyshankar R. (2016), "Is there a correlation between access to journals and their productive use?", *Annals of Library and Information Studies*, Vol.63 No.3, pp.24-30.
- Rekha Chirra, Margam Madhusudhan, (2009) "Use of electronic journals by doctoral research scholars of Goa University, India", *Library Hi Tech News*, Vol. 26 Issue: 10, pp.12-15, <https://doi.org/10.1108/07419e050911022289>

- Siswadi I. (2008), "Ketersediaan Online Journal di Perpustakaan Perguruan Tinggi", *Visi Pustaka*, Vol.10 No.2, pp.67-89.
- Srirahayu Dyah (2018), "The Strategy of University Library in Indonesia to Support World Class University (WCU)", *Library Philosophy and Practice (e-journal)*, Vol.2018 No.1739. <https://digitalcommons.unl.edu/libphilprac/1739>
- Sumitro (2017), "Perilaku mahasiswa dalam memenuhi kebutuhan informasi di Universitas Setya Negara Indonesia", Undergraduate Theses, Universitas syarif hidayatullah, Indonesia.
- Widi R. (2016),"Open Journal System (OJS) untuk Mengelolah Jurnal Ilmiah", *Jurnal Perpustakaan Indonesia*,Vol.10 No.20, pp.56-70.
- Yahya M. Ariffin M. and Arzmi A. (2013),"The challenges in the usage of e-journal amongst lecturers at a public university", *Procedia - Social and Behavioral Sciences*, Vol.103, pp.975 – 981 Doi: 10.1016/j.sbspro.2013.10.4
- A.N. Zainab, A.R. Huzaimah, T.F. Ang, (2007) "Using journal use study feedback to improve accessibility", *The Electronic Library*, Vol. 25 Issue: 5, pp.558-574, <https://doi.org/10.1108/02640470710829541>



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