

ASSESSMENT OF E-BOOK MEDIA IN ECONOMIC LEARNING FOR FIRST GRADE STUDENT IN SENIOR HIGH SCHOOL

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ABSTRACT

This study aimed to describe the results of an assessment of the e-book media made by the validator experts and practitioners to determine the feasibility of e-book media. Feasibility of known devices based on three validators (media experts, subject matter experts, and linguists), practitioners conducted by the class teacher of economic subjects X SMA Negeri 1 Tanjung Bintang. In the data collection, researchers used a questionnaire evaluation of products used by the validator experts and practitioners. The results showed that the e-book media is very appropriate to use as a learning medium economy because it has been through the stages of assessment of media experts at 99% (Very Good), a material 98.4% (Very Good) linguists 98% (Very Good) and teachers of economic subjects of 96.77% (Very Good).

KEYWORDS: Media, E-Book, Economic Learning, Learning

INTRODUCTION

Indonesia as a developing country has good potential that one of them is the quality of human resources. (Mardiyasa, 2016) argued that a country with qualified human resources would be easier to keep up with technology, which gives access to the development of instructional media today and in the future. Ho-Yuan Chen and Syh-Jong Jang (2013) adding that educational technology can help students overcome various problems in learning and can be developed according to the needs of students.

Media that according to the curriculum standards in 2013 would greatly assist teachers in transferring knowledge and efficient in their use in class during school hours, stumblings (Yektyastuti & Ikhsan, 2016). This is in accordance with the opinion Aline Soules (2009) e-book will become a bigger part of education and help students formulate a more flexible schedule.

Based on conditions on the ground, all the students have been using smartphones and the number of laptop users very rapidly with almost all students have marked. The results of observations conducted in the SMA Negeri 1 Tanjung Bintang 2018/2019 school year are known that the low learning outcomes. KKM yet achieved appropriate value because there are still many shortcomings, one of which is the use of conventional media still learning.

Learning media with technology is supporting the learning process, one of which is an e-book (electronic book) is the digital media, the application can be done on smartphones, computers, and

laptops. According to Riduwan (2010), media use the e-book as a learning medium that strongly supports student success in learning.

Economics as the study of how humans utilize scarce resources or limited to fulfill his desire unlimited (Alam, 2013). In economic subjects, students are required to be familiar with the basic concepts of economics into small pieces before discussing the matter further. However, in practice, students find it difficult and considered to be memorized in order to understand the material.

Based on conditions on the ground, the researchers will develop an e-book media to encourage students in the use of technology in the learning process. Before use, media e-book has been validated by competent experts. The purpose of this assessment is to obtain appropriate learning media for use in developing students' potential.

LITERATURE REVIEW

a. Economic Studies

Economics is one part of the social sciences and his theory is often used in observing human needs. According to Reinhard Schumacher (2016: 88), science economy that studies the behavior of individuals and groups in the complex meet their needs with the availability of natural resources are limited. All theories must be abstract from reality and simplify the various issues to build economies that are useful and can be applied in all aspects of the requirements. a framework that can be applied. In analyzing the economic problems by Adam Smith used the basics of science systematically to study human behavior in an attempt to allocate the resources is limited in order to achieve certain goals (Mardiyatmo, 2010: 82).

The material used in the learning process must have been in accordance with the syllabus and validated by expert practitioners. In this section, researchers used two basic competence with the subject matter of the earliest students will be accepted as follows:



Figure 1 Mindmapping material

Based on Figure 1 can be seen that the basic principles of economics have eight sub materials such as:

- 1) Understanding economics
- 2) Core economic issues
- 3) Identify options and priorities
- 4) Needs and means of fulfillment
- 5) Utilizing the opportunity costs
- 6) Economic principles
- 7) Economic motives
- 8) The division of economics

Of course, there is sub material above other indicators that make e-book media increasingly interesting for students to learn.

b. E-Book Media

E-book media (electronic book) is a digital-based book by utilizing technology. If in general the book is made of paper and containing text or an image, then the e-book media provides more convenience such as text, images, video, and a very interesting design. In the digital era media such as e-books are now more desirable because of their smaller size and easy to carry around than printed books. In using the e-book media should use specialized software such as computers, laptops, tablets, and smartphones (Arsyad, 2011).

The advantages and convenience contained in the e-book media course have shortcomings that must be observed by the user. Advantages and disadvantages of e-book media according to Ming-der Wu and Shih-chuan Chen (2011: 300) is:

Advantages:

- 1) Easy to find.
- 2) Convenient for access.
- 3) Easy to store, copy, and print.
- 4) Accessed simultaneously by multiple users.
- 5) Environmentally friendly.
- 6) Convenient for bibliographic management.

Deficiency

1. Discomfort when reading from the screen.
2. Interruption in reading.
3. It cannot be explained and highlighted.
4. We need to install the software before reading.

METHODS

This research uses a descriptive quantitative method. This study presents the results of expert judgments concerning e-book media before being used in the learning process. The subjects included 4 in accordance with their respective areas of expertise which consists of one media expert, one expert material, one language expert, and one expert practitioner. The data were obtained by a questionnaire validation team of experts in e-book media, then the data is analyzed using a Likert scale. Further analysis by calculating the percentage of items statement through the scores given by experts as shown in Table 1 below:

Table 1 Score Rating by Likert Scale

No.	Question Criteria	Statement Score
1	Very Good	5
2	Good	4
3	Quite	3
4	not Good	2
5	Not Very Good	1

Source: Sugiyono (2015: 166)

$$\text{Percentage} = \frac{\Sigma(\text{Obtain Score})}{\Sigma(\text{Maximal Score})} \times 100\%$$

Table 2 Score Interpretation Criteria

r value	Interpretation
90% - 100%	Very Feasible
75% - 89%	feasible
65% - 74%	Quite Feasible
55% - 64%	infeasible
0% - 54%	Not Very Feasible

Source: Riduwan (2012: 13)

RESULTS AND DISCUSSION

Assessment of e-book media in economic learning was done by using a questionnaire validated by a team of experts to determine the eligibility percentage of products to be used in the learning process. Product feasibility assessment of aspects of the media conducted by lecturers technology using media expert validation instrument. Material aspects rated by professors of economics as an expert in the field of economic subjects class X. The instrument used is a matter of expert validation. Then a further aspect is conducted by a lecturer Language Indonesian using language instruments. The last aspect is the practitioner is a teacher of economic subjects in class X SMA Negeri 1 Tanjung Bintang, the assessment is done using instrument practitioners. The results of the validation of the four experts are as follows:

Table 3 Summary of Expert Media

No.	aspects Rating	Σni	ΣN	%	Value	Conclusion
1	display	59	60	100	98.33	Very Feasible
2	programming	40	40	100	100	Very Feasible
Total score		99	100	100	99	Very Feasible

(Source: Data Processing 2019)

Based on table 3 of the recapitulation of media experts note that this aspect of the display acquires 98.33% (Very Feasible), and programming aspects of 100% (Very Feasible). Overall media e-book obtain a final result of 99%. Note that the interpretation criteria score of 90-100% in the category very decent.

Table 4 Summary of Expert Content

No.	aspects Rating	Σni	ΣN	%	Value	Conclusion
1	Learning materials	73	75	100	97.33	Very Feasible
2	substance Content	50	50	100	100	Very Feasible
Total score		123	125	100	98.4	Very Feasible

(Source: Data Processing 2019)

Based on table 4 of the recapitulation of materials experts, there are two aspects to the details of the first is learning materials with a value of 97.33% (Very Feasible), then the second substance of the

material of 100% (Very Feasible). Overall material economic subjects acquire a value of 98.4% (Very Feasible). This indicates that the material was in accordance with the curriculum in 2013 and should be permitted in class x.

Table 5 Summary of Linguists

No.	aspects Rating	Σni	ΣN	%	Value	Conclusion
1	Legibility	49	50	100	98	Very Feasible
	Total score	49	50	100	98	Very Feasible

(Source: Data Processing 2019)

Based on Table 5 of recapitulation Language experts are aspects of legibility by ten indicators therein and obtained a value of 98% (Very Feasible). Language can be concluded that validation in the category of Very Feasible with reference to interpretation criteria score of 90-100% (Very Feasible).

Table 6 Summary of Practitioners

No.	aspects Rating	Σni	ΣN	%	Value	Conclusion
1	Quality Media	39	40	100	97.5	Very Feasible
2	feasibility Presentation	49	50	100	98	Very Feasible
3	Functions and Benefits Media	38	40	100	95	Very Feasible
4	Learning approaches	24	25	100	96	Very Feasible
	Total score	150	155	100	96.77	Very Feasible

(Source: Data Processing 2019)

Based on Table 6 of the recapitulation practitioners, there are four aspects to the details of the first is the quality of the media with a value of 97.5% (Very Feasible), the second presentation of the feasibility of 98% (Very Feasible), and the third is the media functions and benefits by 95% (Very Feasible), then the fourth one learning approaches 96% (Very Feasible). An overall assessment conducted by teachers of economic subjects obtained a value of 96.77% (Very Feasible). It can be concluded that the media e-book learning economy that researchers have developed viable for use.

CONCLUSION

The results of due diligence assessment on the validation assessment of the e-book media in economic learning for the first-grade student in senior high school as a whole can be summed up as a very decent product tested and used in the learning process. The results of the validation of the four experts are as follows:

Table 7 Decision Validation Product Development

No.	aspects Rating	Σni	ΣN	%	Value	Conclusion
1	expert Media	99	100	100	99	Very Feasible
2	expert Content	123	125	100	98.4	Very Feasible
3	Linguist	49	50	100	98	Very Feasible
4	practitioners	150	155	100	96.77	Very Feasible
	Total score	422	430	100	98.13	Very Feasible

(Source: Data Processing 2019)

According to table 7 of the Decision, Validation Product Development obtained a value of 99% (Very Feasible) from media experts, which means appropriate in terms of learning media. Validations conducted by subject matter experts scored 98.4% (Very Feasible). Linguist provides value by 98% (Very Feasible). And validation by the practitioner who is an economics teacher at 96.77% (Very Feasible).

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