The Urgency of Using Teaching Materials Based on E-Book Problem-Based Learning

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Abstract. The development of technology is running very rapidly in all aspects of education, including in the world of education. Technology and education today are two things that cannot be separated and go hand in hand. This study aims to outline the urgency of using e-book-based problem-based learning teaching materials specifically in civic education. This research uses a quantitative approach with a descriptive method. Data collection was carried out by observation, interviews, questionnaires and documentation. The respondents in this study were students who took civic education courses at Sriwijaya University. The results showed that the use of e-book-based teaching materials is important to be developed in civic education learning. Furthermore, this teaching material should be designed with a problem-based learning-based basis to make it more interesting for students. Problem-based learning will build the critical spirit of students and increase students' understanding of the material provided.

Keywords: e-book · problem-based learning · civic education

1 Introduction

Article 37 paragraph (2) of Law Number 20 of 2003 concerning the National Education System [1] emphasizes that the higher education curriculum must contain, among others, civic education. Civic Education is one of the fields of study in the context of national education which has a strategic role for the formation of national character in the midst of the heterogeneity of Indonesian society. The reality of plurality and heterogeneity is illustrated in the principle of Bhineka Tunggal Ika [2].

According to Wening [3] it is necessary to build character building based on moral values of humanity among the community, both as individual groups. Meanwhile, Berkowitz & Bier [4] mentioned that the application of character education seriously and with quality will form a generation that has ethics, is responsible, and becomes a good citizen. Meanwhile, Raihani [6] that "a few subjects taught cultural and religious diversity and multiculturalism, including principles of Islamic faith and Islamic ethics, civic, education, history, and sociology".

The process of implementing civic education certainly requires lecturers who have competence and in the learning process, including readiness in teaching, communication, and personality of the lecturer concerned [7]. This is because the mandate carried out by civic education lecturers is to be able to cultivate a spirit of nationalism with character and good citizen. Therefore, it is very important to connect individuals with the surrounding environment which contains multicultural universal values in order to create the unity of man and the world [8].

The research team has conducted a knowledge study on students who take the civic education course about how the learning process of this course takes place, this is done to obtain the data needed in the analysis of the need for developing learning media for the Civic Education course.

The development of the world of education requires the development of various learning approaches. This is in line with the development of student psychology, social dynamics, and changes in the education system. Multimedia-based learning is one of the indications of a quality school or educational institution. Quality schools need to achieve goals based on established policies, but there are various different methods and information in achieving them.

The use of multimedia in education has several privileges that other media do not have. Among the privileges are: 1) multimedia in computer-based education, 2) multimedia integrates various media (text, picture, sound, video, and animation) in one program digitally. 3) Multimedia provides interactive processes and provides easy feedback. 4) multimedia provides ease of systematic control in learning.

An electronic book (abbreviated as an e-book or e-book) or a digital book is an electronic version of a book. If books generally consist of a collection of papers that can contain text or images, then electronic books contain digital information that can also be in the form of text or images. Nowadays, electronic books are in demand because of their small size when compared to books, and also generally have a search feature, so that words in electronic books can be quickly searched and found. There are various popular electronic book formats, including plain text, pdf, jpeg, doc lit and html. Each format has its own advantages and disadvantages, and also depends on the tools used to read the electronic book.

The Civic Education Course (UNI 15103) is one of the compulsory courses developed in higher education units as mandated in Law No. 12 of 2012. Civic Education is included in the Personality Development (MPK) course group with a weight of 2 credits. According to Ubaedillah, A. & Rozak, A. [10] civics (civic education) are: Education that has a broader scope than democracy education and human rights education because it includes studies and discussions on many things, such as: government, constitution, democratic state institutions, rule of law, rights and obligations of citizens, democratic processes, active participation and involvement of citizens in civil society, knowledge of institutions and systems contained in government, politics, public administration and legal systems, knowledge of human rights, active citizenship, and so on.

In other words, Civics includes learning about moral, political, and legal values in the state order with Pancasila as the basic foundation. Meanwhile, according Kaelan & Zubaedi, A. [11] in essence 'Civics is the result of a synthesis between civic education, democracy education, and citizenship which is based on the philosophy of Pancasila

and contains Indonesian national identity as well as material content about state defense [20].

The research team has conducted a preliminary study with a total of 100 respondents who have taken the Civic education course. From the results of the preliminary study, it was found that 51.4% of respondents stated that the learning of civics courses was very enjoyable, meaning that this left 48.6% of civics course learning, which is normal to boring. Based on these results, the research team then conducted a more in-depth study and found that 73.6% of students wanted a change in the learning media used, so that the learning of civics courses became more interesting. The right learning media for students, 56.6% stated that grafi videos, web, and e-books are interesting media while the remaining 43.4% stated that games are interesting media in addition to the power points used by lecturers who teach Civic Education courses.

The results of the preliminary study can be used as a reference that in the digital era with an all-digital learning process, it is necessary to have an interactive learning media and close to the younger generation, namely technology-based learning media as a means of increasing student motivation and learning outcomes. Therefore, it is important to conduct research as an effort to improve the quality of learning for citizenship courses at Sriwijaya University.

2   Research Method

This research uses a quality approach with a descriptive method. Data collection techniques with interviews, observations and documentation. The resource persons in this study were first semester Sriwijaya University students who received civic education courses. Data analysis techniques use data triangulation.

3   Result and Discussion

The development of the times occurred very rapidly over the boundaries of human thought [23]. Supported by the development of technology that is increasingly sophisticated every day, many human works are eventually replaced with robots and technology [24]. The development of technology not only has an impact on changing information systems or changing some jobs from those used by humans with robots, but also technological developments are becoming a problem for human life in this day and age that is increasingly complex because existing information from all over the world can be obtained easily, especially with social media.

The results of this study showed from the interview process conducted with the speakers said that the social problems they faced were not only related to campus life but also coupled with social life, especially the existence on social media [19]. The speakers also said that in this day and age they use more digital media to learn and find information related to problems that exist in society.

From this we can conclude that social media or digital media today has a very big impact on the younger generation [21]. So the information they get refers more to various social media. This matter must indeed be a serious concern because otherwise it can make there is misinformation in the midst of the younger generation.

Civic education courses as compulsory courses given at all levels of education ranging from basic education to higher education in all scientific fields, aim to be able to equip the younger generation regarding the basics used in living life as good citizens.

Referring to the results of interviews that state that students use digital media more in finding information, the learning media used in civic education learning must transform from conventional to digital-based, one of which is by developing digital-based textbooks.

The development of digital-based textbooks in civic education courses can make it easier for students to be able to access the materials provided wherever students are [22]. The results of the interview also show data that with the existence of digital-based textbooks, students can immediately admit to checking problems that exist in the middle of society with theories in digital books wherever they are, so that they can analyze existing cases using relevant theories. It can also prevent students from misinformation.

Furthermore, in responding to the times, teaching about citizenship does not only use theory, but must be relevant to the data that exists in the midst of society [23]. Therefore, the theory given must be related to the existing problems. This is corroborated by statements from the speakers who said that they prefer to learn theories that are directly related to life or problems that exist in the middle of society, so that they will better understand the theories that have been given in classrooms [17].

The development of the times is developing very rapidly, so students are required to be able to adapt to all existing developments. Therefore, they will be easier to adapt to learning that is directly associated with problems in the field so as to make it easier to understand [24].

Digital book-based learning with an emphasis on problems that exist in the midst of society is a solution that can be provided for civic education learning to be favored by students, so that the purpose of civic education can be realized properly, and form a generation of citizens who can contribute positively to nation building in the future.

4 Conclusion

Learning citizenship education using digital books with an emphasis on material that relates directly to problems that exist in the middle of society or problem-based learning is very important to be applied to civic education learning. This is in order to make students interested in learning civic education. So that the material presented can be conveyed well and can form a good citizen in the future.

Authors' Contributions. Rini Setiyowati acts as a research concept maker and constructs publication writing. Husnul Fatihah and Adi Inggit Handoko acted as concept makers of the research instrument. Devienna and Putria acted as research data collectors.

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