Development of Electronic Books (E-Books) for Scouting Education Course Based on the Outcome-Based Education (OBE) Curriculum at the Faculty of Sports Science

Saipul Ambri Damanik[1], Suryadi Damanik[2], Muhammad Chairad[3], Al Husna[4]

{ambridamanik@unimed.ac.id[1], suryadi67@unimed.ac.id[2], chairad@unimed.ac.id[3], alhusnaa341@gmail.com[4]}

Physical Education Health and Recreation Study Program, Faculty of Sports Science, Universitas Negeri Medan, Indonesia[1], Physical Education Health and Recreation Study Program, Faculty of Sports Science, Universitas Negeri Medan, Indonesia[2], Physical Education Health and Recreation Study Program, Faculty of Sports Science, Universitas Negeri Medan, Indonesia[3], Physical Education Health and Recreation Study Program, Faculty of Sports Science, Universitas Negeri Medan, Indonesia[4]

Abstract. In order to support the department's success in implementing the department's quality standards, high-quality standard documents are required. These will ensure that the competencies produced by the department's graduates are based on their learning achievements while strengthening and enriching those graduates' learning achievements in accordance with the Outcome Based Education curriculum. This research produces an electronic book (e-book) based on the Outcome Based Education (OBE) Curriculum as technological literacy, learning resources, and alternative media, which can facilitate students' learning methods, designed according to student characteristics. It will also establish whether using electronic book media for scouting instruction in accordance with the curriculum for outcome-based education is feasible.

Keywords: Scouting, Electronic Book, E-Book, OBE Curriculum.

1 Introduction

A reference for institutions looking to apply for international recognition or accreditation is the Decree of the Minister of Education and Culture of the Republic of Indonesia Number 83 / P / 2020 about International Accreditation Institutions, which was released in 2020. The primary reference standard for international study program accreditation is typically Outcomes Based Education (OBE).

OBE is a method of teaching that focuses on the abilities that students will have when they have finished their studies. The three main pillars of outcome-based education (OBE) are curriculum focused on outcomes, student-centered teaching and learning approaches, and

outcome-based learning assessment. Students are able to meet their declared ability because of the way the program is organized. For students to be eligible for OBE, they must additionally demonstrate that they have acquired the requisite knowledge and skills. When it comes to execution, OBE places a strong emphasis on three crucial areas: what students should or should be able to achieve, how we can help them acquire those skills, and how we assess if they have those abilities. If not, what measures can we take to ensure continuous Quality Improvement (CQI) or implement modifications to facilitate these skills?

To meet the needs of students and workforce qualifications, we academics must be able to generate graduates who match the standards demanded by the workplace. One tactic used to produce these graduates is the lecturers' preparation or provision of learning materials. Learning resources are essential to the teaching and learning process because they provide knowledge for completing activities, mastering skills, and generating learning attainment targets and competencies. Students need to have access to relevant learning materials in order to meet these learning objectives and competences. As a result, they will be able to generate graduates that satisfy the workforce demands imposed by the growth of science and technology.

According to the preliminary study's findings, learning materials and media, including books, are still scarce and challenging to come by in the scouting education course at the Department of Physical Education, Health and Recreation, Faculty of Sport Sciences. This is especially true of electronic books on scouting education that follow the OBE curriculum. Regarding OBE curriculum-based scouting education, there is not a single electronic book with an ISBN. Given the foregoing context, researchers are interested in conducting development research, specifically creating an electronic book of OBE curriculum-based scouting education to support students' learning processes. In particular, they want to ensure that students who complete the scouting education course possess the skills and credentials required by the workforce.

1.1 Theory

1.1.1 Scouting Education

The Law of the Republic of Indonesia No. 20 of 2003 concerning the National Education system states that the purpose of the National Education system is to develop the ability and shape the character and civilization of a dignified nation to educate the nation's life. Scouting education is a subsystem of National Education that plays a significant role in realizing these goals. Students are expected to develop the potential to become human beings who have faith and devotion to God Almighty, have noble character, are healthy, knowledgeable, capable, creative, independent, and eventually become democratic and responsible citizens.

Scouting activities provide guidance and education with the goal of educating Indonesian children and youth to become:

1) Humanity, morality, intelligence, high moral standards, physical health, and a noble, belief-filled, and committed character are all qualities that are highly valued.

2) People who possess the spirit of Pancasila, remain faithful and submissive to the Unitary State of the Republic of Indonesia, mature into respectable and valuable members of society, are capable of self-improvement, and share responsibility for the advancement of the country and state. (National Kwartir of the Scout Movement, Course Materials for Basic and Advanced Scout Leaders, p.6)

Furthermore, according to Saipul, the goals of scouting education are to: Mold young people's personalities, character, and noble character; fostering a sense of national pride in youth to foster a love of the nation and a willingness to defend the state, providing youth with a diverse range of skills and abilities [1].

The Tri Satya, Dasa Dharma, and the talents that scouts acquire are the sources of the scouting values. Tri Satya is a pledge that demonstrates the scouts' socialist and nationalist mindset. Scouts must uphold the moral code known as Dasa Dharma in order to develop good character, discipline, and moral qualities.

For young people to develop as a whole person that is, to develop spiritually, emotionally, intellectually, and physically scouting is a process of progressive self-learning activities (progress and increase) that will be highly beneficial for them as individuals and as members of society [2].

Using the Scouting Methods and Basic Principles, scouting education is provided through organized, supervised, healthy, interesting, and hands-on outdoor activities. The development of morals and noble character is the ultimate goal.

The three primary objectives of scouting education are as follows: Developing young people's personalities, moral character, and sense of patriotism so they would love and protect their nation; (2) imparting a sense of patriotism; and (3) equipping young people with a range of skills and abilities [1].

A type of non-formal education known as "scouting education" is centered around the scouting process and enriched with teachings on scouting values. The scouting values that are being mentioned here are Satya and Darma. Here, we will talk about a scouting method that involves incremental outdoor learning under adult supervision. Groups vary in how they put the teachings of the Satya into practice.

The field of scouting includes all related subjects. The programming, training, and events of the scout movement are the factors that are being examined. It aims to shape each scout into a person who adheres to the nation's great ideals and is disciplined, dedicated, and of noble character. These qualities are essential to the five precepts. This goal is partially met by the Basic Principles of Scouting and Scouting Methods, in addition to other scouting education initiatives.

1.1.2 Electronic Book Development

An electronic book, or E-Book, is a version of a book that is stored electronically and has features akin to those of traditional printed books, including digital features like animation, sound, and video that can assist readers like Shamir and Korat [3]. An electronic book, on the other hand, is defined by Sanjaya and Restiyowati as a textbook that has been converted into a digital format. An electronic book serves as a learning environment with an application that includes a multimedia database containing a variety of instructional resources and multimedia presentations on topics covered in a book [4].

Additionally, according to Budi Sutedjo Dharma Oetomo, "An e-book is a book that is digital and can be easily accessed using a Personal Digital Assistant (PDA) [5]." A digital book, sometimes known as an e-book, is a digital version of a printed book and is defined as "a publication comprising of text, graphics, and sound and released in digital form that can be read on a computer or other electronic devices such as an android, smartphone, or tablet [6]."

An e-book contains digital information that can also be in the form of text or images, whereas a printed book is a collection of materials with text or images on them [7].

The creation of scouting education electronic books that follow the curriculum of Outcomes Based Education (OBE) is anticipated to be the response to the needs and forms of learning in autonomous and flexible universities, fostering a creative learning environment that is not constrictive and meets the needs of students by providing a mechanism for matching the caliber of graduates produced by educational programs with the qualifications of the workforce required. Thus, the following graphic describes the conceptual framework for the design of electronic book development:
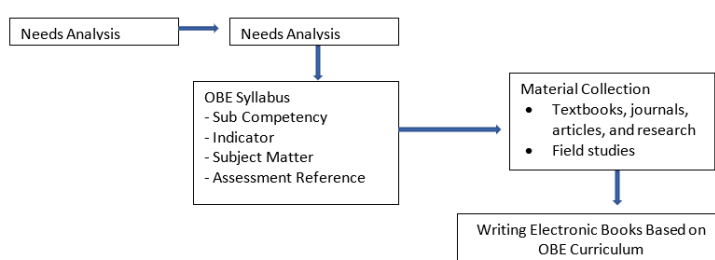

Fig. 1. Flowchart of Scouting Education Ebook Development Based on OBE Curriculum.

1.1.3 OBE Curriculum

Outcome Based Education (OBE) is an educational approach that focuses on the results or achievements that students want to achieve at the end of the learning process. This approach emphasizes the expected outcomes of the educational process rather than just focusing on learning materials or activities. The core idea of OBE is to ensure that students truly understand and can apply the concepts taught. An OBE curriculum puts the main focus on the desired learning outcomes or objectives. This approach is designed to ensure that each element in the curriculum has a clear link to the expected outcomes for students [8]. There are several main characteristics of the OBE curriculum, namely Clear Goal Setting, Structured Curriculum Development, Outcome-Based Assessment, Continuous Adjustment and Renewal, and Collaboration between Educational Stakeholders.

2 Method

The research method used in this research is research and development (Research and Development) related to product development, through the process of planning, producing, and evaluating product validity.
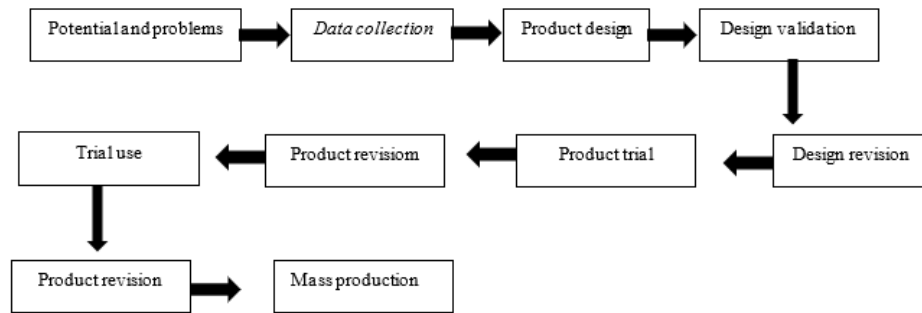

Fig. 2. Steps to Use Method Research and Development (R & D) [9].

3 Result and Discussion

The results of expert validation are the basis for a large number of inputs in the form of suggestions and comments on the produced product, the e-book of scouting courses at the college of sports science. The following are suggestions and observations from experts: Among the aspects of content feasibility that still need work are its suitability for the Graduate Learning Outcomes (completeness and breadth of material), its suitability as learning material (suitability of concepts and definitions, suitability of examples), its currency (suitability of material with scientific developments), and its use of e-books. The viability of the presentation and the appropriateness of the questions are enhanced by the inclusion of questions in every lecture material and remarks on exercise questions that are relevant to the topic.
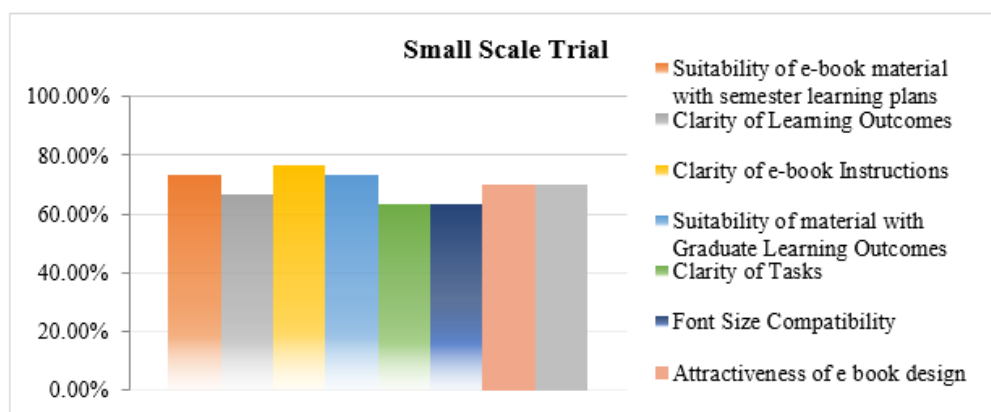

Fig. 3. Small Scale Product Trial.

From the small group test conducted on 30 students, it can be concluded that 73.33% of the suitability of e-book material with semester learning plans, 66.67% clarity of learning outcomes, 76.67 clarity of e-book instructions, 73.33% suitability of material with graduate learning outcomes, 63.33% clarity of assignments, 63.33% compatibility of font size, 70% attractiveness of e-book design, 70% attractiveness of content layout.
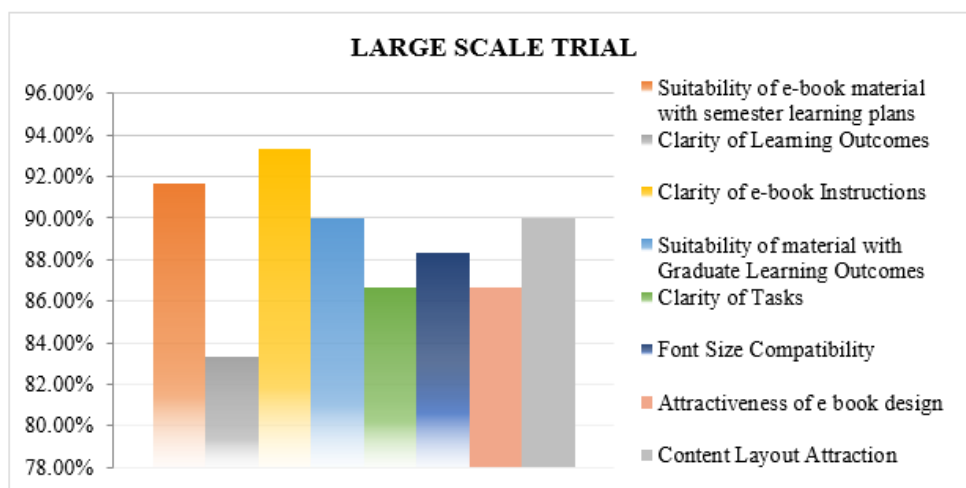

Fig. 4. Large Scale Product Trial.

The results of the 60-student small group trial indicate that 91.67% of the e-book material is suitable for semester learning plans, 83.33% of the learning outcomes are clear, 93.33% of the e-book instructions are clear, 90.00% of the material is suitable for graduate learning outcomes, 86.67% of the assignments are clear, 88.33% of font sizes are compatible, 86.67% of the e-book design is attractive, and 90% of the content layout is attractive. The electronic book of scouting education courses based on the outcome-based education curriculum is appropriate for use as an e-book at the Medan State University Faculty of Sports Science, according to the research findings. The National Education Standards Agency's requirements for content, language, and presentation feasibility have all been met by the e-book of scouting education courses built on the outcome-based education curriculum. The evaluation's findings indicate that the e-book for scouting education courses based on the outcome-based education curriculum is appropriate in terms of the graduate learning outcomes material's suitability, the scouting education teaching material's depth and presentation, the e-book's ease of use, and the presentation and language's completeness. Independent usage of the electronic book for scouting education courses based on the outcome-based education curriculum is possible for students, particularly those enrolled in the State University of Medan's Faculty of Sport Sciences.

The results of previous studies indicate that the e-book that was generated has improved student learning outcomes. The use of e-books in the contemporary digital age has an impact on daily living convenience, especially when it comes to reading activities [10]. This study suggests that while e-books might be distracting, they can also motivate and engage all students, help struggling readers understand texts better, and provide word reading support features. The EPUB format's ability to adapt the font and paragraph size settings to the screen

size makes reading books digitally easy and fun [11]. It is well known that textbook costs for college students in the United States are extremely high. This makes electronic books significantly more economical than print books [12]. Despite these disadvantages, research suggests that e-books can be a useful educational tool for developing reading skills as well as essential 21st-century talents that children need to succeed in our technologically advanced society. Using e-books enhances both the reading experiences of students and teachers in the classroom because they provide students with engaging visual and auditory aids, which help them understand the text and pick up new terminology.

4 Conclusion

Students particularly those enrolled in the Faculty of Sport Sciences at Medan State University, can use the e-book of scouting education courses based on the outcome-based education curriculum independently, according to data from small and large group product trials and expert validation results.

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