Advances in Social Science, Education and Humanities Research, volume 591

Proceedings of the 6th Annual International Seminar on Transformative Education and Educational Leadership (AISTEEL 2021)

ATLANTIS
PRESS

Development of Web-Based Scouting Teaching Materials in the Faculty of Sports Sciences

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ABSTRACT

This research is a development research that aims to produce a product in the form of a design of web-based teaching materials and books with ISBN as teaching materials, learning resources and alternative media, which can facilitate student learning, designed according to student characteristics, in the hope of improving interest in reading, knowledge and materials for completing the Critical Book Report (CBR) task for scouting students in the Health and Recreation Physical Education Study Program. This research was carried out in the Health and Recreation Physical Education Study Program, Faculty of Sports Science (FIK) Unimed. This research is a research and development study. The object of research produced in this research is the development of scouting education teaching materials based on web applications in which there are several materials from scouting education. The data collection technique used was using a questionnaire which was analyzed descriptively quantitatively. The population of the study was students of the Physical Education and Recreational Health and Recreation Study Program in scouting education courses.

Keywords: Scouting Education, Teaching Materials, Web.

1. INTRODUCTION

To meet the needs of workforce qualifications, we lecturers must be able to create graduates who are in accordance with the qualifications of the workforce needed in the world of work. One of the ways to create these graduates, one of which is the lecturer must provide or prepare learning resources. Learning resources are a very important thing in the teaching and learning process to gain knowledge in completing tasks, mastery of skills, and will create learning achievement goals and competencies. In achieving these learning objectives and competencies, students are required to have relevant learning resources in order to create graduates that are in accordance with the learning objectives and competencies of student graduates who have the qualifications of the workforce required by the development of science and technology.

The development of science and technology has brought significant changes in almost all aspects of human life. The quality of learning is strongly influenced by the learning methods carried out, namely the organization, delivery and management of learning. The quality of education can be realized if the learning process is carried out effectively, which means that the learning process can take place smoothly, directed, and in accordance with the learning objectives. In the learning process, choosing the right learning resources and media is believed to be able to help convey messages correctly, effectively, efficiently, can create and enrich learning experiences, be able to present a picture of an event as close or real as possible, and be able to increase activity and skills.

From the results of the preliminary study, in scouting education courses, learning resources and media such as books, web applications are still lacking and difficult to obtain, especially books and web applications for scouting education. There are still a few scouting education books that have International Standard Book Numbers and web applications. From the above background, researchers are interested in conducting development research, namely developing web-based scouting education teaching materials to make students who have passed scouting education courses have the competencies and qualifications of the workforce needed by the world of work.

2. THEORETICAL REVIEW

2.1. Scouting Education

Scouting education is a subsystem of National Education which has an important role for the realization of the goals of National Education as stated in the Law of the Republic of Indonesia No. 20 of 2003 concerning the National Education System, namely developing capabilities and shaping the character and civilization of a dignified nation in the context of the intellectual life of the nation, aims to develop the potential of students to become human beings who believe and fear God Almighty, have noble character, are healthy, knowledgeable, capable, creative, independent and become democratic and responsible citizens.

Coaching and education organized in scouting activities aimed at educating Indonesian children and youth so that they become: 1) Humans have personality, character, and virtuous character who believe and fear God Almighty, mentally strong and high in morals, high in intelligence and quality of skills, as well as strong and physically healthy. 2) Citizens of the Republic of Indonesia who have the spirit of Pancasila, are loyal and obedient to the Unitary State of the Republic of Indonesia and become good and useful members of society, who can build themselves independently and are jointly responsible for the development of the nation and state. (National Quarter Scout Movement, Basic Level Advanced Scout Coaching Course Material...., p.6)

The objectives of scouting education are: 1) Forming the character of young people so that they have noble character, personality and morals, 2) Instilling the spirit of nationalism so that young people love their homeland and have the spirit of defending the country, 3) Equip young people with various skills and abilities. [1].

2.2. Teaching Materials

Teaching materials can also be interpreted as all forms of materials that systematically arranged that allows students to learn independently and designed according to the applicable curriculum [2]. Teaching materials are one of the important learning tools to be provided in learning because teaching materials will make it easier for students and lecturers to carry out learning. [3].

2.3. Web Based Learning

Web-based learning is a learning experience by utilizing the internet network to communicate and convey learning information [4]. Meanwhile, according to Anita, web-based learning includes integrated design and presentation of learning resources through the World Wide Web, confronting learners with text-based learning, hypermedia, multimedia, and collaborative sources for learning purposes [5]. The 2015 National Conference on Education and Culture has produced a number of

materials regarding educational issues in Indonesia, one of which is the need for websites, e-books and other interesting teaching materials to improve the quality of education.

2.4. Implementation of Scouting Lectures in Physical Education, Health and Recreation Study Programs

The implementation of Scouting Education lectures in the Physical Education, Health and Recreation Study Program is given in semester VI with a load of 3 semester credit systems and in Sports Coaching Education 2 semester credit systems. Sixth semester students who fill out the Study Plan Card by taking scouting courses who get and are entitled to attend lectures. In this scouting lecture, various theories and practices relevant to the learning and education process, as well as various streams in the concept of learning and education will be critically studied and analyzed. Students are also given the widest opportunity to carry out and analyze various opportunities for repetition in scouting practice in the field, both theoretical and practical, including performing various skills in marching, rigging, passwords, Morse, ceremonial procedures, and requiring students to attend Basic Advanced Courses at the end of the lecture. and provide a new discourse for students who will receive teaching by discovering various more relevant scouting sciences.

Table 1. Setting of Scouting Lectures for Physical Education, Health and Recreation Study Programs

No	Lecture Activities	Number of Meetings	Place of Study
1	Theory	4	Room
2	Practice	9	Unimed, Multipurpose Field
3	Observation/intership	3	Front group
	Amount	16	

3. METHOD

The research method used in this research is research and development related to product development, through the planning, production and evaluation processes of product validity.
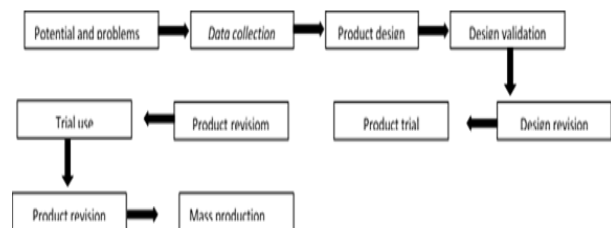

Figure 1. Steps of Use Metode Research and Development (R & D) [6].

4. RESULT AND DISCUSSION

Based on the results of the validation of the experts, there were several inputs in the form of suggestions and comments on the products developed, namely teaching materials for web-based scouting courses at the faculty of sports science. Suggestions and comments from experts are as follows: Aspects of the feasibility of the content that need to be improved include: the suitability of the material with CPL/CMK (completeness of the material and the breadth of the material), the suitability of the learning material (conformity of concepts and definitions, suitability of examples), up-to-date material (suitability of the material with the development of science), use of the web (made a guide for using the web, the web is designed in an attractive and easy-to-use way. Aspects of the feasibility of presenting and suitability of questions are improved with questions in each learning material, feedback on practice questions is adjusted to the material).
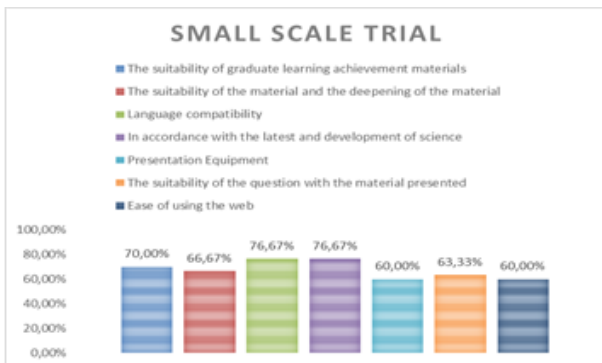

Figure 2. Small Scale Product Trial

From the small group test that has been carried out on 30 students, it can be concluded, 70% of the conformity of the learning outcomes of graduate learning materials, 66.67 of the opinion that the material is appropriate and deepening of the material, 76.67% stating the linguistic suitability, 76.67% stating that the conformity with the latest and development of science, 60% completeness of the presentation, 63.33% stated the suitability of the questions with the material presented, 60% stated the ease of using the web of scouting education teaching materials.
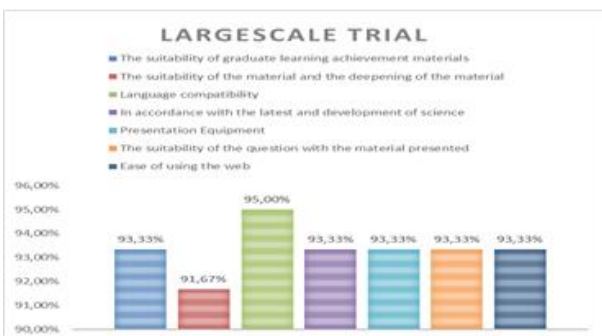

Figure 3. Large Scale Product Trial

From the small group test that has been carried out on 60 students, it can be concluded, 93.33% of the suitability of the material for graduate learning outcomes, 91.67 of the opinion that the material is suitable and deepening of the material, 95% stated that it is linguistically appropriate, 93.33% is of the opinion that it is in accordance with current and developmental development. science, 93.33% completeness of the presentation, 93.33% stated the suitability of the questions with the material presented, 93.33% stated the ease of using the web of scouting education teaching materials.

Based on the results of the research that the web-based scouting education teaching materials are feasible to be used as teaching materials at the Faculty of Sports Science, Medan State University. Web-based scouting education teaching materials have met the components set by the National Education Standards Agency, consisting of components of content, language and presentation feasibility. The results of the assessment show that in web-based scouting education teaching materials, the suitability of the graduate learning achievement material is appropriate, the learning materials and deepening of scouting education learning materials are appropriate, the completeness of presentation and linguistics is appropriate and the ease of use of the web accompanied by usage guidelines. Web-based scouting education teaching materials can be used by students independently, especially students at the Faculty of Sports Science, Medan State University.

Based on the results of previous studies, student learning outcomes have increased after using the developed teaching materials. The average score before using teaching materials only reached 56.9, while after using teaching materials it reached 67.3. Furthermore, the speaking practice shows the average scores as follows. (1) The practice of discussion, the average value of the pretest reached 64.7, while the posttest reached 77.2. (2) Debate, the average value of the pretest only reached 68.9, while the posttest reached 74.7. (3) In the speech, the average value of the pretest only reached 67.6, while the posttest reached 79.4. (4) Presenters, the average value of the pretest only reached 67.2, while the posttest reached 75.8. (5) Language instructor, the average score of the pretest only reached 70.8, while the posttest reached 77.2. (6) Seminar, the average value of the pretest only reached 71.1, while the posttest reached 77.3. Meanwhile, the results of statistical calculations using the t-test using SPSS showed that the results before and after the use of teaching materials were significantly different. This means that the teaching materials resulting from the Development of Speaking Skills are suitable for use by students [7].

Yelmi Yunarti, Sulia Ningsih, web-based teaching materials can improve learning outcomes in process evaluation courses and learning outcomes. The results of

data analysis are supported by theoretical foundations and relevant research results, it can be concluded that the use of web-based teaching materials in process evaluation and learning outcomes courses is effective as teaching materials and learning guidelines with a probability value of 0.000 less than 0.05, so it has an effect on student learning outcomes [8]. After the research took place and the results of the data obtained were analyzed for the class average value obtained after using Web-based mathematics teaching materials using Wordpress, which reached a value of 80.833. Based on the calculation, the achievement of the KKM is with a value of 75, so in this case the student learning outcomes have been declared complete because they are in the interval 75. In addition, based on the use of Web-based mathematics teaching materials using Wordpress, the Wordpress learning process received a good response from students. that is, with an average percentage of 79% of the three aspects measured, the 61%-80% interval includes strong criteria / said to be good [9].

5. CONCLUSION

Based on the results of expert validation and data from product trials in small and large groups, it shows that the development of web-based scouting education teaching materials can be used by students independently, especially students of the Faculty of Sports Science, State University of Medan.

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