



The Use of Android Smartphone as An Effort to Increase Students' Creativity in Learning Modern Hair Bun Course at Vocational High School in the Pandemic Era

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Article Info

Article History :

Received

June 2021

Accepted

August 2021

Published

December 2021

Keywords:

employability skill,
creativity, STEAM-PjBL

Abstract

Learning modern hair bun styling is quite challenging for Cosmetology students, so it is necessary to use an Android smartphone to facilitate their understanding, creativity, and imagination in order to style the hair buns according to the theme. The limited reference books and modules, as well as the lack of modern hair bun learning media, cause the students' low understanding of this course. It is contrary to the condition of the Cosmetology students of at Vocational High School who must be creative and imaginative during the learning process. The problems that want to be revealed are 1) How is the use of Android smartphone on Modern Hair Bun course? and 2) How is the effectiveness of Android smartphone on Modern Hair Bun course to increase students' creativity? The purpose of this Community Service at Vocational High School in the field of Cosmetology by using Android smartphone is to increase the students' creativity in learning modern hair bun styling. The method used is Research and Development oriented to product development in Community Service for the students of Cosmetology Department State Vocational High School 8 Surabaya. Based on the validation results from the learning media experts, it was found that the use of Android smartphone in learning Modern Hair Bun Course showed significant results in increasing the Cosmetology students' creativity.

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p-ISSN 2339-0344

e-ISSN 2503-2305

INTRODUCTION

In 2020, Indonesia and all of the entire world experienced an outbreak of Covid-19. Due to the Covid-19 pandemic, the announcement of Extraordinary Events caused chaos, especially in the education field. Schools were closed, teaching and learning activities in schools were disrupted, learning process that was initially carried out face-to-face could not be carried out for a while. To overcome these problems, it is necessary to change the design of the model in teaching and learning activities to avoid face-to-face learning as an effort to reduce the spread of the COVID-19 virus outbreak.

Education is something that must be obtained by every human being since he was born and lasts throughout his life. One of the educations that a person gets is formal education. It is an education that held in schools in general. The purpose of education has a nature to change attitudes, behavior, and knowledge to realize a better quality. In carrying out the learning process in education, every student has a right to get proper infrastructure as well as media that can support the learning process. However, with the Covid-19 pandemic, the students are obligated to study in their home. The learning process that is usually done face-to-face changes to an online system. In this case, an effective learning media is needed to help them during the teaching and learning activities.

One of the successes in online learning is the effective use of learning media. The successful media is very much needed during the teaching and learning process because it can increase students' interest and motivation during teaching and learning activities and it can also have a psychological effect during the learning. The use of learning media can improve the effectiveness of the learning process. Learning media that utilizes mobile phone technology is called mobile learning or Android smartphone-based learning media. The presence of this android-based learning media is one of the alternative choices that can be taken into account by teachers. It is a complement to learning and it provides opportunities for students to learn any subject materials anywhere and anytime. The presence of

smartphones during the pandemic makes it easier for students to carry out the learning process because it is accompanied by internet facilities. It is the sophistication of smartphones for them to be able to access various kinds of information.

The Modern Hair Bun Styling is one of the learning subjects in Vocational High School. The students learn about the knowledge of hair beauty, one of which is about modern hair bun styling. Learning during the pandemic era is a priority for the Indonesian government. Some Vocational High Schools face difficulty in carrying out a productive learning process, so that many students are less skilled in practice. It has a great impact on the competence of vocational students majoring in Cosmetology in practical learning, one of which is the modern hair bun styling. The Vocational High Schools have a motto: TO BE ABLE, TO WORK, and TO ENTREPRENEUR. It makes some vocational schools need learning innovations in the pandemic era to increase their students' creativity. In addition, based on the interview results of with the head of the Cosmetology department of State Vocational High School 8 Surabaya, it was found the facts that knowledge and skills of teachers in making learning media that could be accepted and liked by students were limited. The limited knowledge and skills of teachers related to the novelty of technology ultimately affect the learning process. Teachers should be able to improve their skills to create effective learning media to make the learning process runs well.

The Android-based learning media is one of the alternative choices that can be taken into account by the teacher. Android smartphone is one of the learning innovations for students to understand the learning materials easily and they can learn anywhere. This learning media uses the sophistication of smartphones to be able to access various kinds of information. The Android-based learning media will help the students to learn modern hair bun styling directly and they are able to save their learning process in their Android smartphone so it can improve the students' creativity in the practice of modern hair bun styling.

The research conducted by Egha (2020:36-45) used the Smartphone Learning Management System (S-LMS) as a learning medium. It showed the effectiveness of using the application which could be seen from the results of students and practitioners (teacher) responses. The student responses showed the COMA application received 87.91% with a very good and effective category to be used by them in learning mathematics, especially for the linear programming material.

The use of Android smartphone in learning is the same as Agus Wilson's research (2020:66-72). This research used quantitative and qualitative methods. 30 students were randomly selected from a private university in Jakarta. The researcher used quantitative method by collecting and analyzing data directly from their respondents through questionnaires. The qualitative method used was literature study technique to support the results of data collection through a questionnaire regarding the use of Android-based applications. This research was expected to be able to present the right application choices to assist the learning process for increasing student learning activities and understanding. The research conducted by Rizky (2021:139-145) used the method of ADDIE (Analyze, Design, Development, Implement and Evaluate). It used the One-Shot Case Study testing strategy with minimal learning mastery ≥ 2.66 or B-. The stages of this research include (1) Problem background analysis (2) Media design (3) Media development (4) Media implementation (5) Media evaluation. The results of the validity of Mobile Learning media with Android Smartphones are stated valid with a percentage of 79.83%. Student responses to the Mobile Learning media showed it was valid with a percentage of 80.5%. The student learning outcomes in TAV class 1 showed 80.64% successful and 19.36% unsuccessful. Based on the results of the study, the Mobile Learning media with Android smartphone on the basic competence of understanding the technical data specifications of radio frequency connectors and their application was proved suitable for use in antenna system engineering learning activities.

METHODS

The method used in this research is R&D (Research and Development). The sampling technique used is purposive sampling. According to Sugiyono (2016: 85), the purposive sampling is a sampling technique for data sources with certain considerations. The reason for using purposive sampling technique is because not all samples have criteria that are in accordance with the phenomenon under study.

In this research, the respondents who become the sample are 20 students of class XII Cosmetology Program of State Vocational High School 8 Surabaya. Data collection techniques used are: 1) observation; 2) interview; 3) distribution of questionnaire sheets; 4) creativity test and 5) documentation. The instruments used in the research are interview guidelines, questionnaires, and test sheets.

Before being used by the students, the Android-based learning media have to be validated first by Expert judgment to assess the validity and feasibility in learning modern hair bun styling. The instrument used is a test sheet to test the effectiveness of the developed media. The analysis of the test sheet uses the Content Validity Ratio (CVR) method. In this case the media was assessed by the experts of Informatics Engineering and the learning material was assessed by the Cosmetology Study Program and the teacher of State Vocational High School 8 Surabaya to examine each component of the measurement instrument. The result is then used to calculate the Content Validity Ratio (CVR) for each component.

The effectiveness test used in this research is one group pretest-posttest design to get the difference in learning outcomes on student creativity between before and after using an Android smartphone.

RESULTS AND DISCUSSION

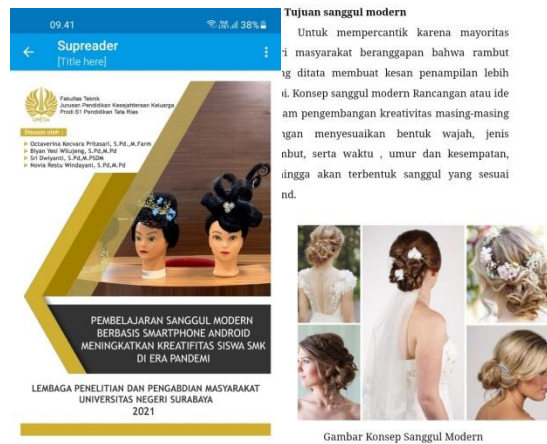
Results

The Use of Android Smartphone in Teaching Modern Hair Bun

The implementation of this community service is to use an Android smartphone in

teaching modern hair bun course. The technique used is analyzing the problems that exist in the environment of Cosmetology department with the aim to invite teachers and students to make an innovation by using an Android smartphone to make it is easier to learn anywhere and anytime.

There are many teachers of vocational high schools who are not ready and have difficulty with online learning, thus making it less creative for the students of Cosmetology department. Below are the pictures of the use of Android smartphones in this community service:



Picture 1. The Cover of Android Smartphone to Teach Modern Hair Bun

In the picture above is a cover on an Android smartphone that is used in implementing the community service for the students of Class XII, Cosmetology department, State Vocational High School 8 Surabaya.



Picture 2. The Video from Android Smartphone to Teach Modern Hair Bun

Figure 2 explains that using an Android smartphone in the learning process provides not only theory and pictures but also videos of the steps in styling a modern hair bun. This will make it easier for students to learn and practice it at home using their own Android smartphone.

The effectiveness of Android smartphone is assessed by media experts and the material according to the stages in the collection of objects to be carried out as follows:

- a. Collecting materials, evaluation questions and answers, as well as examples of the steps in making the Gala Hair Bun. The material is arranged according to the existing

references and made coherently to make it easier for students to learn the material. Evaluation and answers to find out the students' learning outcomes.

- b. Collecting interesting pictures and illustrations to make the students more interested and understand the modern hair bun styling course.

The effectiveness test instrument is arranged in the form of a questionnaire which is presented to the media experts, material experts, and respondents using the type of answer in the form of a check list (√). The results of the feasibility test can be seen in the following table.

Table 1. The Result of Feasibility Test of E-Module Learning Media on Gala Hair Bun

No.	Aspect	V1	V2	V3	Average Score	Criteria
1	Contents Presented	4	4	5	4.3	Valid
2	Language	3	3	5	3.6	Valid
3	Practicality	3	4	4	4.0	Valid
THE AVERAGE SCORE OF ALL ASPECTS					3.96	Valid

Source: Research 2021

Table 1 shows the 3 validators, from the media and content experts, and the average score for all validators is 3.96 which is declared valid or effective to be used for the students of State

Vocational High School 8 Surabaya. A trial used a pretest-posttest system on the students of State Vocational High School 8 Surabaya is applied to see the students' creativity is as follows:

Tabel 2. The Score of Students' Creativity

No	Aspect	Score		Criteria
		<i>Pre</i>	<i>Post</i>	
1	Creativity			
	Design of Modern Hair Bun: Standard Line Shape Background	70	90	High
	Idea: Uniqueness Color	68	80	High
	Product Object: Appropriateness Attractiveness Sale Value	65	83	Very High
	Total	203	253	
	Average Score	67.66	84.33	Very High

Source: 2021

Based on the pretest and posttest results of the students of Class XII State Vocational High School 8 Surabaya, the score of the students' creativity on the modern hair bun course had an increase before and after using an Android smartphone. The criteria for the assessment results are based on a maximum score of 100, so with an average score of 84.33, it can be stated that they are very competent. The difference between the results before and after using an Android smartphone in learning the modern hair bun course is significant. This increase is due to

the addition of creativity assessment for the students.

Discussion

Based on the results of this community service, it aims to get data in the form of the students' creativity score in using an Android smartphone. The implementation of the community service held by the Community Service Team from the Undergraduate Cosmetology Education Study Program was held on Tuesday, November 9th 2021 at the State Vocational High School 8 Surabaya. The

participants were 20 students of Cosmetology department along with 2 teachers. The activity was carried out in the classroom at 10.00 – 12.00 WIB.

The use of Android smartphone in learning the modern hair bun course has been valid, feasible, and effective as stated by the expert judgment so that it can provide significant results on aspects of the students' creativity. It is relevant to Muhammad Zakir's previous research (2020:153-157) who stated that this application is expected to help teachers in explaining lessons, especially when it is related to video images and other examples. It is hoped that the application will make it easier for teachers in teaching and facilitating their students in learning to make the results of the learning process to be more valid, practical, and effective. There is a significant increase on the score of students' creativity. The result of the pre-test is 67.66 and post-test is 84.33. It can be seen that the Android smartphone media makes it easier for students to be able to learn the modern hair bun course independently at home. They are able to style various modern hair buns creatively according to the client's diagnosis. It proves that it is important to innovate the learning process to make the students not to get bored and to enhance them learning something easily. It is in line with Srimulyati's research (2019: 788-797) which stated that the use of media and learning models determines the learning achievement by teachers. The Discovery learning model provides opportunities for students to learn actively. The teacher must be able to guide and direct them during the learning activities according to the objectives. This condition changes teaching and learning activities from teacher oriented to student oriented. The activeness of students in learning can be supported by learning media. Mobile phone/smartphone as one of the latest and updated telecommunications equipment products in the midst of the progress of the globalization era of communication and information technology have their own phenomena for the world of education, especially for teachers and students. This gadget uses an operating system that allows its users to develop it openly, one of which is Android.

The previous research done by Egha, Ria, and Aan in 2020 also examined the development of the Smartphone Learning Management System (S-LMS) as a medium for learning Mathematics in senior high school. This research aimed to develop a smartphone-based learning management system (LMS) as a medium to learn Mathematics. The development model used in this research was the ADDIE model: Analysis, Design, Development, Implementation, and Evaluation. The steps taken were analyzing the state of the school and finding potential and existing problems regarding learning media, designing learning media according to the results of the analysis, developing the results of designs that have been made, implementing learning media to experts of learning media and Mathematics education, and evaluating the appropriate learning media to students and practitioners/teachers. The initial product validation of the learning media was carried out to see the feasibility of it. At the implementation stage, a validation was done for the products that have been made. The levels of learning media quality based on the assessment were as follows: 1) From the experts of learning media, it was obtained a percentage of 84% with a very good category, 2) From the experts of Mathematics education, it was obtained a percentage of 92.72% with a very good category. The effectiveness of learning media based on the evaluation by students and practitioners/teachers was: 1) Students' responses to learning media were 87.91% in the very good category, 2) Practitioners'/teachers' results were 87.86%.

The research done by Putrianti (2020) developed the use of the Modern Hair Bun module to improve learning outcomes at Perintis Vocational High School 29 Ungaran. The module focused on the modern hair bun styling materials which was composed both in content and in sequence according to what students do at school to make them learning

independently. The aims of this study were (1) to determine the validity of the Modern Hair Bun Styling module to improve the student learning outcomes of Vocational High School majoring in Cosmetology, (2) to determine the feasibility of the Modern Hair Bun Styling module to improve the student learning outcomes of Vocational High School majoring in Hair Beauty. The research design used was a one group pretest-posttest design. The population of this research was the students of Perintis Vocational High School 29 Ungaran majoring in Cosmetology Class XI who follow the subjects of Modern and Creative Hair Bun Styling with a total of 10 students. The sampling technique of this research was a total sampling of all 10 students. The independent variable (X) of this research was the feasibility of the Modern Hair Bun Styling module. The dependent variable (Y) of this research was the increase in learning outcomes of class XI students at Perintis Vocational High School 29 Ungaran who would use the Modern Hair Bun Styling module. The data collection used questionnaires and tests. The research instrument was tested for validity and reliability. Data analysis technique used percentage descriptive. The results of the research were to be used as learning media. The module validity of the three experts showed content expert 1 was 87.5%, content expert 2 was 83.3%, and media expert 1 was 93.75%, media expert 2 was 89.58% with an average score was 90%. The effectiveness of the module, found from the aspect of knowledge from two meetings, obtained an average pre-test score of 70 and a posttest score of 85 with a value increase of 45%. She concluded that (1) the use of the Modern Hair Bun Styling module as a learning media was declared valid by 3 validators, (2) the Modern Hair Bun Styling module could improve students learning outcomes. Suggestions (1) teachers should develop learning media in schools to make classroom learning more active and to make students more creative (2) teachers should

provide more techniques and procedures for styling modern hair buns to make their students improve the results of modern hair bun styling.

CONCLUSION

The use of Android smartphone in teaching Hair Bun course at State Vocational High School 8 Surabaya got significant results. The score of students' creativity increased with the pre-test score of 67.66 and post-test 84.33. It proves that learning by using the Android smartphone is an innovation because it has an advantage that contains content, images, and videos that are easy to access by the students.

Program pelatihan dapat diselenggarakan dengan baik dan berjalan dengan lancar sesuai dengan rencana kegiatan yang telah disusun meskipun belum semua peserta pendampingan menguasai dengan baik materi yang disampaikan. Kegiatan ini mendapat sambutan sangat baik terbukti dengan penerimaan pihak SMK khususnya Jurusan Tata Kecantikan. Tampak antusia dan keaktifan peserta mengikuti pelatihan dengan ikut berpartisipasi dalam pelatihan.

The training program can be well organized and run smoothly in accordance with the activity plans that have been prepared, although not all of the participants have mastered the material presented well. This activity received a very good reception as evidenced by the acceptance of the vocational high school, especially the Department of Cosmetology. The participants seemed enthusiastic and active in participating in this training program.

SUGGESTIONS

Based on the evaluation that has been done, several suggestions can be made as follows:

1. Schools need to provide adequate and easily accessible WIFI facilities to facilitate the teaching and learning process.
2. The following activities in the form of similar training to be held periodically to increase knowledge and skills to improve students' competence.

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