

DESIGN AND TEST OF E-LKPD ECONOMIC BASED ON LIVEWORKSHEETS

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Abstrak

Penelitian ini di latar belakang akan pentingnya bahan ajar berbasis digital bantuan *liveworksheets* pada pembelajaran ekonomi di SMAN 12 Pekanbaru. Tujuan penelitian ini untuk mengetahui validitas yang berdasarkan aspek kelayakan isi, kebahasaan, penyajian, dan kegrafisan, serta mengetahui praktikalitas E-LKPD yang dikembangkan. Jenis penelitian ini menggunakan metode *R&D (Research and Development)* dengan desain pengembangan model *ADDIE (Analyze, Design, Development, Implementation, Evaluation)*. Instrumen pengumpulan data berupa lembar validitas yang di isi oleh 6 orang validator yang mana hasil yang diperoleh kategori sangat valid dengan memenuhi aspek kelayakan isi 98%, aspek kebahasaan 93,7%, aspek penyajian 98,6% dan aspek kegrafisan 85%. Sedangkan E-LKPD yang sudah valid di uji cobakan kepraktisannya dengan memperoleh persentase skor dari respon pengguna oleh guru sebesar 97,5%, dan persentase rata-rata oleh peserta didik sebesar 93,1% dengan kategori sangat baik. Berdasarkan dari hasil yang diperoleh dapat disimpulkan bahwa E- LKPD berbasis *liveworksheets* yang dikembangkan sangat valid dan dapat diterapkan dalam proses pembelajaran pada materi ketenagakerjaan.

Kata Kunci: *E-LKPD, Liveworksheets, Ketenagakerjaan*

Abstract

This research was motivated by the importance of digital-based teaching materials with the help of live worksheets in economic learning at SMAN 12 Pekanbaru. The aim of this research is to determine validity based on aspects of appropriateness of content, language, presentation and graphics, as well as to determine the practicality of the E-LKPD being developed. This type of research uses the R&D (Research and Development) method with the ADDIE (Analyze, Design, Development, Implementation, Evaluation) model development design. The data collection instrument was in the form of a validity sheet which was filled in by 6 validators, where the results obtained were in the very valid category by fulfilling the content feasibility aspect of 98%, the linguistic aspect of 93.7%, the presentation aspect of 98.6% and the graphic aspect of 85%. Meanwhile, the valid E-LKPD was tested for its practicality by obtaining a percentage score from user responses by teachers of 97.5%, and an average percentage by students of 93.1% in the very good category. Based on the results obtained, it can be concluded that the live worksheet-based E-LKPD developed is very valid and can be applied in the learning process on employment material.

Keywords: *E-LKPD, Liveworksheets, Employment*

Introduction

The rapid development of the times has made technology increasingly advanced and influential in aspects of life, one of which is in the field of education. According to Ikhlahul, Education is expected to provide novelty in the learning process by utilizing existing technology. The use of electronic teaching materials can be used as a learning innovation that utilizes technology to provide innovation and new color in the field of education, one of which is in evaluation activities.

Lisnuriyanih (2021) explains that Liveworksheets is one of the sites for creating e-worksheets or worksheets, making it easier for users to use designing learning devices. E-worksheets can be done online. Site This liveworksheet is very interesting, besides that, it is also very useful in terms of use easy. Liveworksheet is an application that can be used to create materials and Interactive Student Worksheet (LKPD) online (Rohmah, 2022).

Aditama., et al: 2019 stated that, Student Worksheets (LKPD) are a learning tool that contains a series of questions and information important things which are then arranged in such a way as to help students find creative ideas and work on them systematically (Yuniasih & Nita, 2021).

Research results (Prabowo, 2021) found that often in activities passive student learning in completing assignments from the teacher as

well students are less enthusiastic about making LKPD (student worksheet), so Many students do not complete assignments.

Based on the results of observations made at SMA Negeri 12 Pekanbaru, it was found that the LKPD was used for evaluation activities, but it was still a printed LKPD, where the printed LKPD had a weakness, namely that the printed LKPD was still monotonous because it only consisted of material and practice questions, so participants tend to become bored and less motivated to do the assignments the teacher gives. As in Davega's opinion, printed LKPD in the form of presenting content only in the form of material and practice questions results in less than optimal stimulus for students' understanding of concepts. Nikmatul and Nyoman said that the printed LKPD was less interactive and less interesting, unable to present sound, video and animation that were able to provide a clear understanding of the material being studied.

According to Devitha and Ida in their research, printed LKPD is less effective and practical considering advances in science and technology. With this, Herawati said that printed LKPD needs to be developed into E-LKPD which can support learning. According to Vivi and Ika, the use of E-LKPD in learning has an impact to make students' learning activities more enjoyable, learning becomes interactive, and motivates students in learning. Diana et al said that developing E-LKPD requires a device that is capable of presenting an E-LKPD with interactive features, one of

which is based on live worksheets. As Shelviana in her research stated, E-LKPD is based on live worksheets which contain a summary of the material which is also accompanied by animated images and videos and there are various forms of interesting practice questions which can make students more interested in the learning process.

Based on this, researchers are interested in developing E-LKPD based on live worksheets at SMA Negeri 12 Pekanbaru, as an innovative teaching material to make evaluation activities more enjoyable and increase students' interest in carrying out evaluation tasks. This is based on Lestari's opinion that E-LKPD live worksheets are a learning tool that uses electronic tools, which contain pictures, videos and practice questions so that they are more effective. Dina and Putri in their research also said that E-LKPD based on live worksheets is flexible, students can work directly on the E-LKPD, and students can find out the final score after doing the exercises in the E-LKPD. Therefore, researchers chose E-LKPD based on live worksheets to prove an increase in students' motivation and interest in the learning process.

Research Methods

This research includes development research or Research and Development (R&D). The development model used in this research is ADDIE. This research was carried out at SMA Negeri 12 Pekanbaru. The time of

this research was at odd semester of the 2023/2024 academic year in September 2023. The subjects in this research were the parties who assessed the E-LKPD products produced, namely learning media experts, learning material experts, and practicality testing experts. The stages used in the ADDIE model development research are:

Analysis (Analyze), The first stage is to hold a discussion with the deputy principal for curriculum affairs. The researcher asked about the alignment between the school's vision and mission and its relationship to the curriculum and by placing economics subjects in employment material, this was done to ensure that there was a mismatch in the use of teaching materials that teachers had previously used in achieving the school's vision and mission through employment material.

Design, the second stage is design. The display design on the E-LKPD varies, containing material in the form of literacy reading texts, images, videos, evaluation questions with various other models.

Development (Development), At this stage the researcher submits the E-LKPD that has been designed and previously Peer Reviewed to media experts first, then to material experts, and continues to practicality experts.

Implementation At this stage the live worksheet-based E-LKPD that has been developed will be tested in real situations in the

classroom. Trials were carried out on class XI students to test the quality of the product in the form of E-LKPD. And Evaluation, In this step, an evaluation is carried out on the feasibility of using the E-LKPD that has been developed.

Data collection techniques using observation, interviews, validity and practicality sheets and documentation. The validation/practicality results are calculated using the average score formula, namely the equation:

$$\text{Validity/practicality percentage} = \frac{\text{Score obtained}}{\text{Max score}} \times 100\%$$

Research Results And Discussion

The validity of the developed E-LKPD can be seen from the analysis of the validation sheet. An average score for assessing the four aspects of E-LKPD feasibility as assessed by 6 validators can be seen in the following table.

Table 1. The Average Scores for the Four Aspects of E-LKPD Feasibility

No	Rated aspect	Average score validation	Note
1	Eligibility of content	98%	Valid
2	Appropriateness language	93,7%	Valid
3	Feasibility of presentation	98,6%	Valid
4	Graphic feasibility	85%	Valid
Average score overall Validation		93,8%	Valid

Source: Research result 2/23

Based on the validation results in the table above, the E-LKPD teaching materials based on live worksheets on employment material are declared very valid and suitable for use.

After being declared valid by the validator, the next stage is testing. At this stage the use of E-LKPD by educators and students. Researchers tried to apply E-LKPD on a limited basis with the aim of knowing the response to the product being developed. The following is the implementation stage which consists of 2 stages, namely the responses of educators and students:

a. Educator response questionnaire

The response questionnaire was given to 1 economics teacher at SMA Negeri 12 Pekanbaru. The score obtained from the assessment and suggestions given by the educator obtained the percentage score for the total number of statements was 97.5%. So the criteria were very good. so that the development of E-LKPD is based on live worksheets on final economic learning material on employment.

b. Student response questionnaire

The live worksheet-based e-LKPD that has been developed is then tested on students to get a response. This trial involved 20 students at SMA Negeri 12 Pekanbaru who came from class XI IPA 4. Based on the scores given by the students, the overall score percentage was 93.1% which was declared very good.

Conclusions And Suggestions

Conclusion

Based on the results of the research that has been carried out, the following conclusions can be drawn:

1. Based on the development of liveworksheets-based E-LKPD teaching materials, validation results can be obtained and declared to be feasible and meet the 4 feasibility requirements according to BSNP 2012, namely content appropriateness 98%, language appropriateness 93.7%, presentation appropriateness 98.6%, and graphic appropriateness 85% %. And an overall average of 93.8% was obtained, fulfilling the very valid category.
2. The liveworksheets-based E-LKPD that was developed was declared practical and suitable for use in the learning process because the score from user responses by educators was 97.5%, and the average percentage by students was 93.1%, so that the E-LKPD that was developed was feasible used and obtain good criteria in the learning process.

Suggestions

The suggestions from researchers regarding the research carried out are as follows:

1. Researchers recommend developing E-LKPD using the ADDIE model until the assessment stage so that it can then be carried out (evaluation)
2. Researchers recommend more research further about the development of ELKPD based on live worksheets on other materials to other researchers.

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