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JOVES (Journal of Vocational Education Studies)
 VOL x, No. x, 202, pp. xx-xx
 pISSN: 2614-7487 eISSN: 2614-7475 https://doi.org/10.12928/jovves.v3i2.1111

Development of Basic Electrical Learning Video to Improve Student's Competencies

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Author revision

ARTICLE INFO ABSTRACT

Article history
 Received
 Revised
 Accepted

Keywords:
 Learning video
 Instructional media

In the current era, the learning process has begun to use blended learning. Students are expected to be able to study independently, in basic electricity practice courses students have difficulty learning independently. This study aims to develop learning videos to improve student competence. The development model used is the ADDIE model. The stages of development carried out are Analyze, Design, Development, Implementation, and Evaluation. The feasibility of basic electricity learning videos as learning media is included in the "Very feasible" category. This learning media can be used to support the learning process of basic electricity practices.

Author
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Introduction
 Yogyakarta State University (UNY) as an educational institution is committed to becoming a World Class University (WCU) in 2025, as stated in the UNY 2021 Strategic Plan. The curriculum is

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Fig 2: Video Content

3. Development
 Development is the process of making or developing learning videos and validating them. This stage is a real stage in the development of basic electricity learning videos. The steps to develop in this study include preparing a video recorder, making videos, developing instruments, testing the feasibility of the instrument, testing the feasibility, and revising the video to get the results of the video revision. The videos that have been reviewed by media experts and the material are then declared appropriate by the experts so they are ready to be implemented.

4. Implementation
 The implementation was carried out on students of the Electrical Engineering Education Study Program, FT UNY. The implementation was carried out to test students' responses to the LMS Be Smart integrated basic electricity learning video.5. Evaluate

The evaluation stage aims to find out the shortcomings of the videos developed through suggestions and comments from experts and users. These deficiencies are used as material for analysis to carry out the process of redevelopment or refinement according to needs.

Result and Discussion
 The analysis activity begins with identifying problems in the implementation of basic electricity practical learning. Look for differences between learning objectives and the reality of the learning process that has been implemented. Analyzing the urgency of whether or not the development of learning media is necessary and adapted to various supporting aspects of learning

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Fig 7: Media Expert Test Results

Berdasarkan Gambar 7 dapat dijelaskan, bahwa aspek materi memperoleh nilai sebesar 93,83% pada kesesuaian materi. Sedangkan pada kualitas pembelajaran memperoleh nilai 89,50%. Sehingga dapat diartikan bahwa video pembelajaran dasar listrik dinilai dari aspek materi termasuk kategori "sangat layak". Hasil uji validitas baik aspek media dan materi, pada video pembelajaran dasar listrik termasuk kategori "Sangat layak".

Selanjutnya adalah uji kelayakan dari pengguna. Hasil uji kelayakan video pembelajaran dari pengguna ditampilkan pada Gambar 8 berikut:

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see English

Development of Basic Electrical Learning (P. C. Domonik et al.)

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Conclusion

Development of basic electricity learning videos using the ADDIE model. The purpose of developing this learning media is to overcome problems in the implementation of basic electricity practices. The stages of development carried out are Analyze, Design, Development, Implementation, and Evaluation. The feasibility of basic electricity learning videos as learning media is included in the "Very feasible" category. This learning media can be used to support the learning process of basic electricity practices.

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