

**PENGEMBANGAN MEDIA PEMBELAJARAN TRAINER  
PENGAMAN ARUS BOCOR PADA INSTALASI LISTRIK RUMAH  
TINGGAL DI MATA KULIAH SISTEM PENGAMAN TENAGA  
LISTRIK**

Oleh

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**ABSTRAK**

Penelitian ini bertujuan untuk membuat media pembelajaran trainer pengaman arus bocor pada instalasi listrik rumah tinggal, mengetahui kelayakan serta mengetahui respon mahasiswa terhadap media pembelajaran trainer pengaman arus bocor pada instalasi listrik rumah tinggal di mata kuliah sistem pengaman tenaga listrik. Penelitian ini menggunakan metode penelitian *Research and Development* (R&D). Pengumpulan data penelitian ini menggunakan metode angket/kuesioner yang dinilai oleh ahli isi, ahli media, dan mahasiswa. Hasil penelitian diperoleh: hasil uji validasi ahli isi mendapatkan persentase 93,1% dengan kualifikasi sangat layak, hasil uji ahli media mendapatkan persentase 97,5% dengan kualifikasi sangat layak, hasil uji coba kelompok kecil nilai terendah 40 dari responden dengan kategori sangat tinggi dan hasil uji kelompok besar nilai terendah 40 dari responden dengan kategori sangat tinggi. Hasil penelitian media pembelajaran trainer pengaman arus bocor pada instalasi listrik rumah tinggal layak digunakan dan mendapatkan respon baik dari mahasiswa pada pembelajaran sistem pengaman tenaga listrik di Program Studi Pendidikan Teknik Elektro Undiksha.

**Kata Kunci:** Media Pembelajaran, pembelajaran trainer pengaman arus bocor pada instalasi listrik rumah tinggal, sistem pengaman tenaga listrik

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**ABSTRACT**

*This research aims to develop a learning media for a leakage current protection trainer in residential electrical installations. It seeks to assess the feasibility and gauge the students' responses to the learning media on the leakage current protection trainer for residential electrical installations in the course of Power System Security. The research methodology employed in this study is Research and Development (R&D). Data collection for this research was carried out using questionnaires, which were evaluated by content experts, media experts, and students. The results of the study are as follows: The validation results by content experts achieved a percentage of 93.1%, indicating a highly suitable qualification. Meanwhile, the validation results by media experts obtained a percentage of 97.5%, also indicating a highly suitable qualification. In the small-group trial, the lowest score received was 40, denoting a very high category of response from the participants. Similarly, in the large-group trial, the lowest score received was 40, indicating a very high category of response from the participants. The findings suggest that the developed learning media for the leakage current protection trainer in residential electrical installations is appropriate for use and has received positive feedback from students during the Power System Security course at the Electrical Engineering Education Program of Undiksha.*

**Keywords:** *Learning Media, learning of leakage current protection in residential electrical installations, electrical power safety system.*