

Development of SSI-Oriented Chemistry Learning Videos with Controversial Issues in ESD

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ABSTRACT

This study aims to develop SSI-oriented chemistry learning videos with controversial issues in ESD. In detail, the objectives of this study are: (1) analyzing the specifications of the SSI-oriented chemistry learning videos with controversial issues in ESD following the results of the need assessment for the development of chemistry learning videos; (2) analyzing the feasibility of the SSI-oriented chemistry learning videos with controversial issues in ESD in terms of the aspects developed in this study; and (3) analyzing user responses to SSI-oriented chemistry learning videos with controversial issues in ESD being developed. The research was conducted using the exploratory sequential design method. The research activities were carried out in three stages of analysis: the primary qualitative phase, the secondary quantitative phase, and the integration phase, which connected the two data and expanded the findings of the initial qualitative exploration. The qualitative stage begins with a needs analysis of the types and formats of videos needed in learning. The next step is development activities based on the needs analysis obtained at the beginning, then theoretical validation through expert judgment by four learning expert lecturers and revision. Finally, the quantitative stage in this study was carried out through a response test to SSI-oriented chemistry learning videos with controversial issues in ESD by prospective users, namely five chemistry teachers and 54 senior high school/vocational students. The results of this study was nine learning videos uploaded via YouTube. Based on the teacher's assessment, the developed learning video can already be implemented for chemistry learning in terms of material, function, display, audio, language, and programming aspects. In addition, students remarked that the learning videos were engaging and wished that they were further developed for other discussions.

Kata Kunci: *Keywords: SSI, learning video, controversial issues, ESD*