

**PENGEMBANGAN MEDIA PEMBELAJARAN BERBASIS VIDEO  
PROSES PRODUKSI BETON *READY MIX*  
PADA MATA KULIAH BAHAN BANGUNAN II  
DI JURUSAN PENDIDIKAN TEKNIK SIPIL DAN PERENCANAAN**

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**ABSTRAK**

Tujuan penelitian ini adalah: (1) Mengembangkan media pembelajaran berbasis video pada mata kuliah Bahan Bangunan II di Jurusan Pendidikan Teknik Sipil dan Perencanaan FT UNY; (2) menguji kelayakan media pembelajaran berdasarkan penilaian ahli materi, ahli media dan pengguna.

Penelitian ini termasuk dalam jenis penelitian pengembangan (R&D) yang mengacu pada model pengembangan 4D (*four-D*) oleh Thiagarajan, meliputi empat tahapan, yaitu: tahap pendefinisian (*define*), tahap perencanaan (*design*), tahap pengembangan (*develop*), dan tahap penyebaran (*disseminate*). Instrumen yang digunakan berupa angket menggunakan skala *Likert* dengan empat pilihan jawaban. Angket tersebut digunakan dalam proses validasi ahli materi, ahli media serta pengguna. Data hasil angket dianalisis secara kuantitatif. Selanjutnya hasil analisis digunakan untuk revisi media pembelajaran yang dikembangkan.

Hasil penelitian dan pengembangan media pembelajaran memperoleh kesimpulan sebagai berikut: (1) telah dikembangkan media pembelajaran proses produksi beton secara *ready mix* dengan model pengembangan 4D. Tahap *define*, merancang media dengan menganalisis kompetensi, karakter peserta didik, kosep media dan perumusan tujuan pembelajaran. Tahap *design*, melakukan pengumpulan bahan materi hingga tahap pembuatan media. Tahap *develop*, dihasilkan media video yang layak melalui penilaian ahli dan revisi. Tahap *disseminate*, media disebarluaskan dengan cara dikemas dalam bentuk CD, *flashdisk*, dan diunggah ke internet; (2) kelayakan media pembelajaran berdasarkan penilaian ahli materi mendapat skor 87,5% termasuk dalam kategori “sangat layak”, sedangkan penilaian oleh ahli media sebesar 87,5% termasuk dalam kategori “sangat layak” dan hasil skor penilaian pengguna yang masuk pada kriteria sangat layak dan layak ialah sebesar 96,96%.

**Kata kunci:** media pembelajaran, beton *ready mix*, *research and development*

**DEVELOPMENT OF VIDEO LEARNING MEDIA  
READY MIX CONCRETE PRODUCTION PROCESS  
ON THE SUBJECT BUILDING MATERIALS II  
IN CIVIL AND PLANNING ENGINEERING DEPARTMENT**

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**ABSTRACT**

This research aimed to: (1) develop a learning media in a video format on the subject of Building Materials and Introduction to Concrete Technology in Civil and Planning Engineering Department; (2) examine appropriateness of the learning media based on the evaluation from experts and the users.

This research can be categorized as research and development activity that refers to 4D method that proposed by Thiagarajan, cover four steps: define, design, develop and disseminate. The instrument that used in this research is a four scale Likert selection. Those questionnaires use on validation for media and materi expert also users. The data analysis will be analysed using quantitative method. Furthermore, analysis result will used media learning's revision.

The assesment of learning media can be concluded as follows: (1) the learning media had been developed based on 4D. The define phase, designing the media by analyzing the competencies, students' character, media concept and formulation of learning objectives. Design phase, collecting all of materials until production the media. The develop phase, produced proper video media through expert judgment and revision. Disseminate phase, the media is distributed by packaging in the form of CDs, flash drives, and uploaded to the internet; (2) appropriateness learning media can be classify as "very proper" based on assesment by material expert the score is 87,5%, while the assesment by media expert the score is 87,5% from the total score include in category "very proper" and the final score from users include in category very proper and proper are 96,96%.

**Keyword:** learning media, ready mix concrete, research and development