

## ABSTRAK

Peserta didik kesulitan dalam menggunakan bahan ajar yang ada karena bahan ajar yang digunakan memiliki kekurangan seperti bahasa yang digunakan dalam penjelasan materi sulit dipahami, materi dan contoh soalnya kurang lengkap serta kurang menarik sehingga bahan ajar yang diperlukan untuk pembelajaran matematika adalah bahan ajar yang berisi materi dan contoh soal yang lengkap dan mudah dipahami oleh peserta didik, serta menarik. Penelitian ini bertujuan untuk mengembangkan modul berbasis *self organized learning environment* berbantu video pembelajaran pada materi persamaan dan fungsi kuadrat yang valid dan praktis. Metode penelitian yang digunakan yaitu 4D (*Define, Design, Develop, Disseminate*). Subjek dari penelitian ini adalah peserta didik kelas IX SMP Negeri 1 Way Bungur. Instrumen pengumpulan data yang digunakan berupa lembar wawancara, dan lembar angket (validasi ahli materi dan desain, serta kepraktisan produk). Pengumpulan data dilakukan dengan wawancara, validasi dan uji coba produk. Berdasarkan hasil penelitian dan pengembangan yang dapat dilihat dari persentase ahli materi sebesar 86,3% dan ahli desain sebesar 83% sehingga diperoleh rata-rata persentase sebesar 84,7% masuk dalam kriteria sangat valid dalam hal materi seperti kelayakan isi, kebahasaan dan SOLE serta dalam hal desain seperti penyajian dan kegrafisan. Rata-rata persentase uji coba produk sebesar 88,4% masuk dalam kriteria sangat praktis dalam hal tampilan modul, penyajian materi, dan manfaat modul. Modul berbasis *self organized learning environment* berbantu video pembelajaran materi persamaan dan fungsi kuadrat telah memenuhi kriteria sangat valid dan sangat praktis.

**Kata kunci:** Modul, Pengembangan, *Self Organized Learning Environment*, Video Pembelajaran

## ABSTRACT

*Students have difficulty using existing teaching materials because the teaching materials used have shortcomings such as the language used in explaining the material is difficult to understand, the material and example questions are incomplete and less interesting so the teaching materials needed for learning mathematics are teaching materials that contain material and examples of questions that are complete and easy for students to understand, as well as interesting. This research aims to develop a module based on a self-organized learning environment assisted by learning videos on valid and practical quadratic equations and functions. The research method used is 4D (Define, Design, Develop, Disseminate). The subjects of this research were class IX students at SMP Negeri 1 Way Bungur. The data collection instruments used were interview sheets, and questionnaire sheets (validation of material and design experts, as well as product practicality. Data collection was carried out by interviews, validation and product trials. Based on the results of research and development which can be seen from the percentage of material experts of 86, 3% and design experts at 83% so that an average percentage of 84.7% is obtained which is very valid in terms of material such as appropriateness of content, language and SOLE as well as in terms of design such as presentation and graphics. Average percentage of product trials 88.4% falls within the very practical criteria in terms of module appearance, material presentation, and module benefits. The self-organized learning environment-based module assisted by video learning material on equations and quadratic functions has met the very valid and very practical criteria.*