

**PENGEMBANGAN E – MODUL MULTI REPRESENTASI BERORIENTASI MODEL  
PROBLEM BASED LEARNING UNTUK MENINGKATKAN KEMAMPUAN LITERASI  
MATEMATIKA SISWA SEKOLAH MENENGAH PERTAMA (SMP) KELAS VIII**

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**ABSTRAK**

Kemampuan literasi peserta didik masih berada di bawah rata-rata sehingga tujuan dari penelitian ini adalah 1) mendeskripsikan karakteristik e-modul multi representasi berorientasi model *problem based learning* pada materi SPLDV, 2) mengetahui validitas, 3) tingkat kepraktisan, 4) dan tingkat keefektifan e-modul multi representasi berorientasi model *problem based learning* pada SPLDV dalam meningkatkan literasi matematika siswa kelas VIII. Model pengembangan yang digunakan dalam penelitian ini adalah model ADDIE (*Analysis, Design, Development, Implementation, and Evaluation*). Penelitian dilaksanakan di SMP Negeri 2 Kuta Utara. Format bahan ajar e-modul dikemas dalam bentuk *link* berupa *flipbook* dan di dalamnya memuat lembar aktivitas, video pembelajaran, media geogebra, evaluasi berupa *quizizz* (multi representasi). Rancang bangun modul digital terdiri dari halaman sampul e-modul, halaman pembuka, halaman pengantar e-modul, halaman aktivitas, halaman video pembelajaran, halaman materi, halaman refleksi dan latihan soal, halaman daftar pustaka, dan halaman sampul penutup modul. Berdasarkan hasil yang diperoleh e-modul yang dikembangkan valid dengan rata-rata skor 4,07, praktis 4,03 dengan rata – rata skor dan efektif dalam meningkatkan literasi matematika dengan rata – rata skor 0,54.

**Kata Kunci:** model ADDIE, e-modul, multi representasi, *problem based learning*, literasi matematika.

**ABSTRACT**

The purpose of this research is to 1) describe the characteristics of an electronic module with various representations which refers to problem-based learning models on “two variable linear equation system” material for students grade VIII; 2) determine the validity; 3) determine the level of practicality; 4) and determine the level of effectiveness of an electronic module with various representations which refers to problem-based learning models on “two variable linear equation system” material in improving students' mathematical literacy class VIII. This electronic modul development applies ADDIE (*Analysis, Design, Development, Implementation, and Evaluation*) model. This research was conducted at SMP Negeri 2 Kuta Utara. The electronic module design consists of the e-module cover page, opening page, e-module introduction page, activity page, learning video page, material page, reflection page and practice questions, bibliography page, and module close cover page. Product trials are carried out with a limited number of feasibility (valid and practical) and product effectiveness. The final prototype is in the form of an e-module that already has proper and effective criteria. The format of the e-module teaching materials is packaged in the form of a link. Based on the results obtained, the developed e-module is valid with an average score of 4.52, practical 4.03 with an average score and effective in improving mathematical literacy with an average score of 0.54.

**Keywords:** ADDIE, e-module multi representation, problem based learning, two-variable linear equation system, literacy.