

## ABSTRAK

Penelitian pengembangan ini bertujuan untuk mengembangkan bahan ajar berupa *handout* dengan pendekatan Pendidikan Matematika Realistik Indonesia (PMRI) untuk memfasilitasi siswa dalam membuat model matematika pada materi program linear yang layak dan praktis. Metode penelitian yang digunakan yaitu model ADDIE (*Analysis, Design, Develop, Implementation, dan Evaluate*) yaitu terdiri dari tahap analisis, desain, pengembangan, implementasi, dan evaluasi.

Berdasarkan tahap validasi dari ahli materi diperoleh persentase sebesar 70,6% sehingga tergolong dalam kategori layak, dari ahli bahasa memperoleh persentase sebesar 67,5% sehingga tergolong kriteria layak, persentase sebesar 81,25% yang diperoleh dari validator ahli desain sehingga tergolong dalam kriteria sangat layak. Uji coba kelompok kecil yang terdiri dari 10 responden diperoleh hasil dengan besar persentase 87,46% sehingga tergolong kriteria sangat praktis. Berdasarkan hasil data yang diperoleh dapat disimpulkan bahwa *handout* merupakan bahan ajar yang layak dan praktis, sehingga dapat membantu peserta didik dalam membuat model matematika.

**Kata Kunci:** *handout*; model matematika; pendekatan pendidikan matematika realistik indonesia (pmri); pengembangan; program linear.

## ABSTRACT

This development research aims to develop teaching materials in the form of handouts with the Indonesian Realistic Mathematics Education (PMRI) approach to facilitate students in making mathematical models on linear and appropriate program materials. The research method used is the ADDIE model (*Analysis, Design, Develop, Implementation, and Evaluate*) which consists of the stages of analysis, design, development, implementation, and evaluation. Based on the validation stage of the material experts obtained a percentage of 70.6% so that it is included in the feasible category, from linguists obtained a percentage of 67.5% so that it is classified as a feasible criterion, a percentage of 81.25% obtained from the design expert validator so that it is classified in the criteria very decent. A small group trial consisting of 10 respondents obtained results with a large percentage of 87.46% so it is classified as a very practical criterion. Based on the results of the data obtained it can be concluded that the handout is a feasible and practical teaching material, so that it can help students in making mathematical models.

**Keywords:** handouts; mathematical model; indonesian realistic mathematics education approach (PMRI); development; linear program.