

**PENGEMBANGAN MODUL DIGITAL BERORIENTASI MPMbKGOP  
DALAM PEMBELAJARAN PECAHAN DI KELAS IV UNTUK  
MENINGKATKAN KARAKTER PESERTA DIDIK**

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**ABSTRAK**

Penelitian pengembangan ini memiliki tujuan yaitu memperoleh modul digital berorientasi MPMbKGOP dalam pembelajaran pecahan di kelas IV dengan karakteristik yang dapat meningkatkan karakter peserta didik serta memenuhi kriteria kevalidan, kepraktisan, dan keefektivan. Dalam proses pengembangannya, menerapkan model 4D. Metode pengumpulan data yang digunakan yaitu wawancara, angket, dan lembar observasi. Karakteristik modul digital berorientasi MPMbKGOP yaitu terdapat petunjuk peserta didik, petunjuk orang tua, materi nilai-nilai karakter, terdapat latihan soal yang interaktif, pembelajaran mengenai pecahan melalui *geogebra* serta kuis melalui *website google form*. Peneliti melakukan uji coba terbatas kepada 15 peserta didik kelas IV di SD N 1 Baktiseraga guna mengetahui kriteria kevalidan, kepraktisan, dan keefektivan dari modul digital yang dikembangkan. Modul digital yang telah dikembangkan dapat digunakan secara *online* melalui *link* dan secara *offline* menggunakan aplikasi *flip pdf professional* dan *e-book*. Data kevalidan peneliti diperoleh dari angket penilaian oleh ahli media pembelajaran serta ahli materi. Data kepraktisan peneliti diperoleh dari angket respon peserta didik dan angket respon pendidik. Data keefektivan peneliti diperoleh dari hasil observasi karakter peserta didik sebelum dan sesudah menggunakan modul digital yang dikembangkan. Hasil rata-rata uji coba modul digital yang dikembangkan diperoleh tingkat kevalidan yaitu sebesar 4,20 dengan kategori sangat valid, tingkat kepraktisan yaitu 88.45% dengan kriteria sangat praktis, dan tingkat keefektivan memperoleh sebelum tindakan didapatkan 45.00% dengan kriteria mulai berkembang dan setelah tindakan didapatkan sebesar 90.00% dengan kriteria membudaya. Dengan menggunakan *gain score* diperoleh karakter peserta didik mengalami peningkatan sebesar 1,53 dengan kategori tinggi. Dapat disimpulkan modul digital yang telah dikembangkan memenuhi kriteria valid, praktis, dan efektif.

**Kata kunci:** *Modul Digital berorientasi MPMbKGOP, Pecahan, Karakter Peserta Didik.*

**DEVELOPMENT OF MPMbKGOP ORIENTED DIGITAL MODULE IN  
FACTORS LEARNING IN CLASS IV TO  
IMPROVE STUDENT'S CHARACTER**

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**ABSTRACT**

This development research has the aim of obtaining a digital module oriented MPMbKGOP in learning fractions in grade IV with characteristics that can improve the character of students and meet the criteria of validity, practicality, and effectiveness. In the development process, applying a 4D model. Data collection methods used are interviews, questionnaires, and observation sheets. The characteristics of the MPMbKGOP-oriented digital module are that there are student instructions, parental instructions, character values material, there are interactive practice questions, learning about fractions through geogebra and quizzes through the google form website. Researchers conducted a limited trial to 15 fourth grade students at SD N 1 Baktiseraga in order to determine the criteria for the validity, practicality, and effectiveness of the developed digital module. The digital module that has been developed can be used online via a link and offline using a professional flip pdf application and e-book. The researcher's validity data was obtained from an assessment questionnaire by learning media experts and material experts. The researchers' practicality data was obtained from student response questionnaires and educator response questionnaires. Data on the effectiveness of the researcher was obtained from the results of observing the character of students before and after using the developed digital module. The average test results of the developed digital module obtained a level of validity of 4.20 with a very valid category, the level of practicality was 88.45% with very practical criteria, and the level of effectiveness obtained before the action was obtained 45.00% with the criteria starting to develop and after the action was obtained by 90.00% with cultural criteria. By using the gain score, the character of the students has increased by 1.53 in the high category. It can be concluded that the digital module that has been developed meets the criteria of being valid, practical, and effective.

**Keywords:** *MPMbKGOP-oriented Digital Module, Fractions, Character of Students.*