PENGEMBANGAN MEDIA PEMBELAJARAN MATEMATIKA BERBASIS *GOOGLE SITES* PADA MATERI STATISTIKA UNTUK SISWA KELAS X SMA

Ardian Saputra
2021121017

Abstrak

Banyak siswa yang masih kesulitan memahami konsep dasar pada materi statistika terutama pada mean, median, dan modus. Kesulitan ini disebabkan karena kurangnya media pembelajaran yang digunakan dalam proses pembelajaran. Oleh karena itu, perlu adanya media pembelajaran yang memfasilitasi dan memudahkan siswa dalam pembelajaran. Penelitian ini bertujuan untuk mengembangkan media pembelajaran matematika berbasis *Google Sites* pada materi statistika untuk siswa kelas X SMA yang valid, praktis, dan memiliki efek potensial. Metode penelitian yang digunakan adalah *Reaserch and Development* (R&D) dengan model pengembangan ADDIE (*Analyze*, *Design*, *Development*, *Implementation, and Evaluation*). Teknik pengumpulan data yang digunakan adalah instrumen validasi, angket respon siswa, tes, dan wawancara. Teknik analisis data yang digunakan adalah analisis deskriptif kuantitatif. Hasil penelitian menunjukkan pada tahap *analyze* diperoleh bahwa media pembelajaran berbasis *Google Sites* dibutuhkan untuk memfasilitasi dan memudahkan siswa mempelajari materi ukuran pemusatan data. Pada tahap *design*, dihasilkan rancangan media pembelajaran matematika berbasis *Google Sites* pada materi statistika untuk siswa kelas X SMA. Selanjutnya, pada tahap *development* media pembelajaran dilakukan validasi kepada validator, diperoleh persentase hasil penilaian sebesar 91,21% pada kategori sangat valid. Kemudian, media pembelajaran dilakukan uji coba *small group*, diperoleh persentase hasil penilaian angket respon siswa sebesar 91,11% pada kategori sangat praktis. Setelah itu dilanjutkan tahap *implementation*, media pembelajaran digunakan dalam proses pembelajaran sebanyak tiga kali pertemuan yang melibatkan satu kelas. Terakhir, pada tahap *evaluation* dilakukan analisis hasil tes belajar siswa untuk mengukur efek potensial media pembelajaran. Hasil analisis data menunjukkan bahwa media pembelajaran dinyatakan memiliki efek potensial dengan persentase hasil belajar sebesar 93,75% pada kategori sangat baik.

Kata kunci: Statistika, *Google Sites*, Media Pembelajaran, Pengembangan

DEVELOPMENT OF GOOGLE SITES-BASED MATHEMATICS LEARNING MEDIA ON STATISTICS MATERIAL FOR GRADE X HIGH SCHOOL STUDENTS

Ardian Saputra
2021121017

Abstract

Many students still have difficulty understanding the basic concepts of statistics, especially mean, median, and mode. This difficulty is caused by the lack of learning media used in the learning process. Therefore, there needs to be learning media that facilitates and facilitates students in learning. This study aims to develop mathematics learning media based on Google Sites on statistics material for grade X high school students that are valid, practical, and have potential effects. The research method used is Research and Development (R&D) with the ADDIE (Analyze, Design, Development, Implementation, and Evaluation) development model. The data collection techniques used are validation instruments, student response questionnaires, tests, and interviews. The data analysis technique used is quantitative descriptive analysis. The results of the study showed that at the analyze stage, Google Sites-based learning media were needed to facilitate and facilitate students in learning the material on data centralization measures. At the design stage, a design of mathematics learning media based on Google Sites on statistics material for grade X high school students was produced. Furthermore, at the development stage of learning media, validation was carried out to the validator, obtaining a percentage of assessment results of 91.21% in the very valid category. Then, the learning media was tested in a small group, and the percentage of student response questionnaire assessment results was 91.11% in the very practical category. After that, the implementation stage was continued, the learning media was used in the learning process for three meetings involving one class. Finally, at the evaluation stage, an analysis of the results of student learning tests was carried out to measure the potential effects of the learning media. The results of the data analysis showed that the learning media was stated to have a potential effect with a percentage of learning outcomes of 93.75% in the very good category.

Keywords: *Statistics, Google Sites, Learning Media, Development*