

ABSTRAK

PENGEMBANGAN E- LEARNING BERBASIS MODEL PROJECT BASED LEARNING UNTUK MENINGKATKAN KETERAMPILAN KOLABORASI PADA PEMBELAJARAN INFORMATIKA

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Tujuan penelitian ini adalah mengembangkan, menganalisis efektifitas, efisiensi, dan kemenarikan e-learning berbasis model project based learning berorientasi pada pengembangan keterampilan kolaborasi peserta didik. Jenis penelitian yang digunakan adalah pengembangan (R&D) dengan model pengembangan ADDIE.

Subjek penelitian adalah kelas X MIPA 4 di SMA Negeri 4 Bandar Lampung TP 2022/2023 dengan teknik pengumpulan data observasi, wawancara, angket, tes dan dokumentasi. Teknik analisis data meliputi aspek kelayakan dan kemenarikan e-learning, dan analisis keterampilan kolaborasi peserta didik.

Hasil penelitian diperoleh meliputi: (1) SMAN 4 Bandar Lampung mempunyai potensi dan kondisi untuk dikembangkan e-learning sesuai dengan hasil rancangan produk yang dihasilkan; (2) Proses pengembangan menggunakan model pengembangan ADDIE sehingga diperoleh hasil produk e-learning berbasis model PjBL berorientasi pada pengembangan keterampilan kolaborasi peserta didik dengan hasil validasi oleh ahli menyatakan sangat valid untuk digunakan. (3) Hasil keterampilan kolaborasi peserta didik pada ujicoba kelas kecil meliputi (a) kemampuan saling ketergantungan positif sebesar 71,67 dalam kriteria aktif, (b) kemampuan tanggung jawab individu sebesar 71,53 dalam kriteria aktif; (c) kemampuan interaksi melalui tatapan muka sebesar 74,07 dalam kriteria baik; dan (d) kemampuan penerapan keterampilan kolaborasi sebesar 77,27 dalam kriteria baik; serta ujicoba terbatas meliputi (a) kemampuan saling ketergantungan positif sebesar 77,21 dalam kriteria aktif, (b) kemampuan tanggung jawab individu sebesar 75,55 dalam kriteria aktif; (c) kemampuan interaksi sebesar 77,27 dalam kriteria baik; dan (d) kemampuan keterampilan kolaborasi sebesar 76,42 dalam kriteria baik. (4) Efisiensi waktu dan efisiensi pembelajaran keterampilan kolaborasi peserta didik pada ujicoba kelas kecil cukup efisien dan ketuntasan sebesar 84,79% sedangkan pada ujicoba terbatas cukup efisien dan ketuntasan sebesar 87,14%. (5) Hasil penilaian tanggapan guru dan peserta didik bahwa produk pengembangan e-learning berbasis model PjBL berorientasi pada pengembangan keterampilan kolaborasi peserta didik menarik. Penggunaan e-learning dalam pembelajaran dengan model project based learning efektif mengembangkan keterampilan kolaborasi peserta didik.

Kata Kunci : e-learning, project based learning, keterampilan kolaborasi.

ABSTRACT

MODEL-BASED E-LEARNING DEVELOPMENT PROJECT BASED LEARNING TO IMPROVE COLLABORATION SKILLS IN INFORMATION LEARNING

**By
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The purpose of this study is to develop, analyze the effectiveness, efficiency, and attractiveness of e-learning based on a project-based learning model oriented to the development of students' collaboration skills. The type of research used is development (R&D) with the ADDIE development model.

The research subject is class X MIPA 4 at SMA Negeri 4 Bandar Lampung TP 2022/2023 with data collection techniques of observation, interviews, questionnaires, tests and documentation. Data analysis techniques include aspects of the feasibility and attractiveness of e-learning, and analysis of students' collaboration skills.

The research results obtained include: (1) SMAN 4 Bandar Lampung has the potential and conditions to develop e-learning in accordance with the results of the resulting product design; (2) The development process uses the ADDIE development model so that the results of e-learning products based on the PjBL model are oriented towards developing student collaboration skills with the results of validation by experts stating that they are very valid to use. (3) The results of students' collaboration skills in small class trials include (a) positive interdependence ability of 71.67 in active criteria, (b) individual responsibility ability of 71.53 in active criteria; (c) face-to-face interaction ability of 74.07 in good criteria; and (d) the ability to apply collaboration skills of 77.27 in good criteria; and limited trials covering (a) positive interdependence ability of 77.21 in active criteria, (b) individual responsibility ability of 75.55 in active criteria; (c) interaction ability of 77.27 in good criteria; and (d) the ability of collaboration skills of 76.42 in good criteria. (4) Time efficiency and efficiency of learning collaboration skills of students in small class trials are quite efficient and completeness is 84.79% while in limited trials are quite efficient and completeness is 87.14%. (5) The results of the assessment of teacher and student responses that e-learning development products based on the PjBL model are oriented to the development of interesting student collaboration skills. The use of e-learning in learning with a project based learning model is effective in developing students' collaboration skills.

Keywords: e-learning, project based learning, collaboration skills.