

ABSTRAK

Sopia Debora Br Situmorang, NIM 4193331008 (2024). Pengembangan Modul Kimia Berbasis *Project Based Learning* (PjBL) Menggunakan Aplikasi Canva Pada Materi Koloid

Penelitian ini mengembangkan modul kimia berbasis model PjBL dimana masih ditemukan di sekolah belum memanfaatkan bahan ajar seperti modul sehingga peserta didik kurang aktif dan kreatif pada saat pembelajaran. Adapun tujuan penelitian ini untuk (1) mengetahui analisis kebutuhan serta perbandingan dengan bahan ajar yang ada. (2) Mengetahui tingkat kelayakan memenuhi standar validasi isi, validasi bahasa, validasi penyajian dan validasi kegrafikan modul kimia berbasis *Project Based Learning* (PjBL) berdasarkan standar BSNP. Adapun penelitian ini menggunakan metode (R&D) dengan model 4-D meliputi tahapan (*define, design, develop, and dissemination*). Dari hasil analisis kelayakan media yang telah divalidasi kepada ahli media dan materi dari rata-rata persentase kelayakan isi 89%, aspek kelayakan penyajian 90%, aspek kelayakan bahasa 83% dan aspek kelayakan kegrafikan 83% dan rata-rata keseluruhan modul sebesar 86%. Respon guru terhadap modul yang dikembangkan diperoleh sebesar 92% dan respon siswa sebesar 91%. Dapat disimpulkan bahwa melalui pengembangan modul kimia berbasis model PjBL menggunakan canva dapat digunakan sebagai bahan ajar pada materi koloid. Modul ini dapat menjadi salah satu terobosan dalam meningkatkan cara belajar siswa pada materi koloid.

Kata Kunci : Koloid, Modul, *Project Based Learning* (PjBL)

ABSTRACT

Sopia Debora Br Situmorang, NIM 4193331008 (2024). Development of a Chemistry Module Based On a Project Based Learning (PjBL) Model Using The Canva Application On Colloid Materials

This research developed a chemistry module based on the PjBL model because students were still found to be less active and creative during learning so the research aims to (1) find out needs analysis and comparison with existing teaching materials. (2) Knowing the level of feasibility of meeting the standards for content validation, language validation, presentation validation and graphic validation of Project Based Learning based chemistry modules based on BSNP standards. This research uses the (R&D) method with a 4-D model including stages (define, design, develop, and dissemination). From the results of the media suitability analysis which has been validated by media and material experts, the average content suitability percentage is 89%, the presentation suitability aspect is 90%, the language suitability aspect is 83% and the graphics suitability aspect is 83% and the overall module average is 86%. The teacher response to the module developed was 92% and the student response was 91%. It can be concluded that through the development of a chemistry module based on the PjBL model using Canva it can be used as teaching material on colloidal materials. This module can be a breakthrough in improving the way students learn about colloid materials.

Keywords: Colloid, Module, Project Based Learning (PjBL)