

# PENYULUHAN VAKSINASI COVID-19 SECARA TERPROGRAM UNTUK PENINGKATAN LITERASI VAKSINASI COVID-19 DI KEPUTREN, PLERET, BANTUL

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## ABSTRACT

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This research was conducted to: (1) assess the validity of the web-based science module according to expert lecturer, and (2) assess the practicality of the module according to practitioners and users, and (3) assess the effectiveness of the module in improving students' creative attitude and problem solving skills.

The 4D research and development model (define, design, develop and disseminate) was employed. There were 56 research subjects who were cluster randomly selected consisting of students from VII-D class as the experiment group and VII-E class as the control group. Research data were collected using validation sheets, practicality evaluation sheet, readability evaluation sheet, observation sheet for creative attitude, questionnaires on creative attitude, and a test to assess students' problem solving skills. The main field testing was conducted in the form of quasi experiment using the pretest-posttest control group design. The effectiveness of the product was analyzed using the multivariate analysis of variance (MANOVA) with significance level set at 0.05.

The results of this research showed that : (1) the web-based integrated science module based on PBL on the local potential "tannery waste" was considered appropriate by the experts; (2) (1) the web-based integrated science module based on PBL on the local potential "tannery waste" was considered practical by the practitioners; and (3) the use of this module has been proven effective in improving students' creative attitude and problem solving skills. The improvement of students' creative attitude and problem solving skills after the treatment was considered moderate.

**Key Words:** PBL, problem solving skills, creative attitude, local potential, web-based science module

*Kata Kunci: PBL, problem solving skills, creative attitude, local potential, web-based science module*