

**PENGARUH *PROJECT BASED BLENDED LEARNING MODEL*  
TERHADAP KEMAMPUAN PEMECAHAN MASALAH MATEMATIKA  
SISWA DI MTs NEGERI 4 JEMBRANA**

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**ABSTRAK**

Kemampuan pemecahan masalah merupakan kemampuan yang penting yang harus dimiliki oleh siswa. Tujuan penelitian ini dilaksanakan adalah untuk mengetahui ada atau tidaknya pengaruh *project based blended learning model* terhadap kemampuan pemecahan masalah matematika siswa. Penelitian eksperimen semu digunakan di penelitian ini menggunakan *post-test only control group design*. Populasi yang ditentukan yaitu semua siswa kelas VII MTs N 4 Jemberana dan dilaksanakan saat TA 2021/2022; dengan populasi berjumlah 210 siswa di 7 kelas. Dua kelas dari populasi dijadikan sampel penelitian, yaitu kelas kontrol dan eksperimen. Siswa kelas eksperimen sebanyak 30 anak didapatkan dari kelas VIIA. Siswa kelas kontrol sebanyak 30 anak didapatkan dari kelas VIIC. Penetapan sampel penelitian menggunakan *cluster random sampling*. Kesetaraan dari kedua kelas tersebut diketahui berdasarkan nilai PAS. Data yang dikumpulkan dalam penelitian ini adalah skor kemampuan pemecahan masalah matematika yang diketahui berdasarkan hasil pengerjaan tes uraian. Hasil yang didapat dari penelitian ini memperoleh rerata skor *posttest* di kelas eksperimen sebanyak 41.33 dan kelas kontrol sebanyak 36.20. Rerata skor kelas eksperimen lebih baik dibandingkan kelas kontrol. Hasil yang didapat dari pengujian hipotesis memakai uji-t dengan taraf signifikansi 5% dan mendapatkan hasil  $t_{hitung} > t_{tabel}$  ( $2.585 > 1.672$ ). Hasil tersebut menggambarkan jika terdapat perbedaan signifikan mengenai kemampuan pemecahan masalah matematika siswa kelas kontrol dan eksperimen. Kesimpulan yang didapatkan yaitu, ada pengaruh *project based blended learning model* terhadap kemampuan pemecahan masalah matematika siswa.

**Kata Kunci :** *Project Based Blended Learning Model*, Kemampuan Pemecahan Masalah Matematika Siswa.

# THE EFFECT OF PROJECT BASED BLENDED LEARNING MODEL ON STUDENTS' MATHEMATICS PROBLEM SOLVING ABILITY IN MTs NEGERI 4 JEMBRANA

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## ABSTRACT

*Problem solving ability is an important ability that must be possessed by students. The purpose of this study was to determine whether or not there is an effect of project based blended learning model on students' mathematical problem solving abilities. The quasi-experimental research used in this study used a post-test only control group design. The population determined were all students of class VII MTs N 4 Jembrana and carried out during the 2021/2022 PAS; with a population of 210 students in 7 classes. Two classes of the population were used as research samples, namely the control class and the experimental class. There were 30 experimental class students obtained from class VIIA. There were 30 control class students from class VIIC. Determination of the research sample using cluster random sampling. The equivalence of the two classes is known based on the PAS value. The data collected in this study is the score of mathematical problem solving ability which is known based on the results of the description test. The results obtained from this study obtained the average posttest score in the experimental class as much as 41.33 and the control class as much as 36.20. The average score of the experimental class is better than the control class. The results obtained from testing the hypothesis using a t-test with a significance level of 5% and get the results  $t_{value} > t_{table}$  ( $2.585 > 1.672$ ). These results illustrate if there are significant differences in the mathematical problem solving abilities of control and experimental class students. The conclusion obtained is that there is an effect of project based blended learning model on students' mathematical problem solving.*

**Keywords :** *Project Based Blended Learning Model, students' mathematical problem solving.*