

**PENGARUH MODEL *DISCOVERY LEARNING* TERHADAP EFIKASI DIRI  
DAN KEMAMPUAN PEMECAHAN MASALAH MATEMATIKA SISWA  
KELAS VIII SMP NEGERI 1 DENPASAR**

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**ABSTRAK**

Penelitian tertulis bertujuan untuk menguji pengaruh model *discovery learning* terhadap efikasi diri serta kemampuan pemecahan masalah matematika siswa. Jenis penelitian yang dipakai diartikan penelitian eksperimen semu (*quasi experiment*). Populasi penelitian tertulis diartikan siswa kelas VIII SMP Negeri 1 Denpasar tahun ajaran 2023/2024. Pengambilan sampel dilaksanakan dengan teknik *cluster random sampling* didapat kelas VIII A sebagai kelas eksperimen serta kelas VIII B sebagai kelas kontrol. Instrumen yang dipakai diartikan instrumen efikasi diri berupa kuesioner serta instrumen kemampuan pemecahan masalah berupa tes uraian dengan koefisien reliabilitas sejumlah 0,855 untuk kuesioner dan 0,880 untuk tes uraian. Sebelum melaksanakan uji hipotesis, dilaksanakan uji prasyarat meliputi uji normalitas multivariat, uji homogenitas varians, uji homogenitas matriks varian kovarian, uji korelasi antar variabel terikat. Setelah uji prasyarat terpenuhi, dilanjutkan dengan uji hipotesis. Menurut hasil analisis uji MANOVA didapat nilai signifikansi sejumlah untuk uji hipotesis pertama sejumlah  $0,007 < 0,05$  dengan taraf signifikansi 5% memperlihatkan adanya perbedaan efikasi diri siswa kelas eksperimen dengan kelas kontrol. Uji hipotesis kedua didapat nilai signifikansi sejumlah  $0,006 < 0,05$  diperlihatkan adanya perbedaan kemampuan pemecahan masalah matematika siswa kelas eksperimen dengan kelas kontrol. Uji hipotesis ketiga didapat nilai signifikansi sejumlah  $0,001 < 0,05$  diartikan  $H_0$  ditolak dan  $H_1$  diterima ditemukan adanya perbedaan efikasi diri serta kemampuan pemecahan masalah matematika siswa yang dibelajarkan dengan model *discovery learning* dengan yang dibelajarkan dengan pembelajaran konvensional. Hal itu mengindikasikan model *discovery learning* memberi pengaruh positif terhadap efikasi diri serta kemampuan pemecahan masalah matematika siswa kelas VIII SMP negeri 1 Denpasar.

**Kata Kunci:** efikasi diri, kemampuan pemecahan masalah matematika, model *discovery learning*

**THE EFFECT OF DISCOVERY LEARNING MODEL ON SELF-EFFICACY  
AND MATHEMATICAL PROBLEM SOLVING ABILITY OF STUDENTS IN  
CLASS VIII SMP NEGERI 1 DENPASAR**

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**ABSTRACT**

*The written research aims to examine the effect of discovery learning model on students' self-efficacy and math problem solving ability. The type of research used is defined as quasi experiment research. The population of the written research is defined as VIII grade students of SMP Negeri 1 Denpasar in the 2023/2024 school year. Sampling was carried out using cluster random sampling technique, obtained class VIII A as the experimental class and class VIII B as the control class. The instruments used are self-efficacy instruments in the form of questionnaires and problem solving ability instruments in the form of a description test with a reliability coefficient of 0.855 for the questionnaire and 0.880 for the description test. Before carrying out hypothesis testing, prerequisite tests were carried out including multivariate normality test, variance homogeneity test, covariance variance matrix homogeneity test, correlation test between dependent variables. After the prerequisite test is fulfilled, proceed with hypothesis testing. According to the results of the MANOVA test analysis, the significance value for the first hypothesis test is  $0.007 < 0.05$  with a significance level of 5%, showing that there are differences in the self-efficacy of experimental class students with control classes. The second hypothesis test obtained a significance value of  $0.006 < 0.05$  showed a difference in the mathematical problem solving ability of experimental class students with the control class. The third hypothesis test obtained a significance value of  $0.001 < 0.05$  means that  $H_0$  is rejected and  $H_1$  is accepted, there is a difference in self-efficacy and mathematical problem solving ability of students taught with the discovery learning model with those taught with conventional learning. This indicates that the discovery learning model has a positive effect on self-efficacy and mathematical problem solving skills of students in class VIII of SMP Negeri 1 Denpasar.*

**Keywords:** *self-efficacy, math problem solving ability, discovery learning model*