

**PENGARUH MODEL PEMBELAJARAN 5E *LEARNING CYCE*
BERBANTUAN MEDIA INTERAKTIF *GOOGLE SITES* TERHADAP
PEMAHAMAN KONSEP MATEMATIKA SISWA KELAS VII SMP
LABORATORIUM UNDIKSHA SINGARAJA**

Oleh

Ni Kadek Shantia Sri Kusuma, NIM 2213011073

Program Studi Pendidikan Matematika

Jurusan Matematika

ABSTRAK

Kemampuan pemahaman konsep matematika merupakan kemampuan dasar yang wajib dimiliki setiap siswa. Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran 5E *Learning Cycle* berbantuan media interaktif *Google Sites* terhadap pemahaman konsep matematika siswa kelas VII SMP Laboratorium Undiksha Singaraja. Penelitian ini menggunakan metode *quasi experiment* dengan rancangan *post-test only control group design*. Sampel diperoleh melalui *cluster random sampling* yaitu kelas 7.1 sebagai kelas eksperimen sebanyak 23 siswa dan kelas 7.2 sebagai kelas kontrol sebanyak 26 siswa. Data dikumpulkan melalui tes uraian kemampuan pemahaman konsep matematika. Data hasil tes diuji normalitasnya menggunakan *Shapiro-Wilk*, uji homogenitas dengan *Uji Levene*, dan hipotesis penelitian diuji dengan menggunakan uji-t satu ekor. Berdasarkan hasil analisis data diperoleh rata-rata nilai posttest kelas eksperimen dan kelas kontrol berturut-turut sebesar 84,26 dan 70,58. Dengan nilai statistik uji t sebesar $t = 6,021$ dimana nilai $\text{sig} < 0,05$ yang berarti H_0 ditolak dan H_1 diterima. Hal ini menunjukkan bahwa pemahaman konsep matematika siswa yang dibelajarkan dengan model 5E *Learning Cycle* berbantuan media interaktif *Google Sites* lebih tinggi daripada pemahaman konsep matematika siswa yang dibelajarkan dengan model konvensional. Dengan demikian, dapat disimpulkan bahwa penerapan model pembelajaran 5E *Learning Cycle* berbantuan media interaktif *Google Sites* memiliki pengaruh positif terhadap pemahaman konsep matematika siswa kelas VII SMP Laboratorium Undiksha Singaraja

Kata Kunci: *Model 5E Learning Cycle, Google Sites, Pemahaman Konsep Matematika Siswa*

**THE EFFECT OF THE 5E *LEARNING CYCE* LEARNING MODEL
ASSISTED BY *GOOGLE SITES INTERACTIVE MEDIA* ON THE
UNDERSTANDING OF MATHEMATICS CONCEPTS OF GRADE VII
JUNIOR HIGH SCHOOL STUDENTS OF UNDIKSHA SINGARAJA
LABORATORY**

By

Kadek Shantia Sri Kusuma, NIM 2213011073

Mathematics Education Study Program

Mathematics Department

ABSTRACT

The ability to understand mathematical concepts is a basic skill that every student must have. This study aims to determine the influence of the 5E Learning Cycle model assisted by Google Sites interactive media on the understanding of mathematical concepts of grade VII students of Undiksha Singaraja Laboratory Junior High School. This study uses a quasi experiment method with a post-test only control group design. Samples were obtained through cluster random sampling, namely class 7.1 as an experimental class of 23 students and class 7.2 as a control class of 26 students. Data was collected through a descriptive test of mathematical concept comprehension. The test result data was tested for normality using Shapiro-Wilk, homogeneity test with the Levene test, and the research hypothesis was tested using the t-test of one tail. Based on the results of data analysis, the average posttest scores for the experimental class and the control class were 84.26 and 70.58 respectively. With a statistical value of the t-test of $t = 6.021$ where the sig value < 0.05 which means H_0 rejected and H_1 accepted. This shows that the understanding of mathematical concepts of students who are taught with the 5E Learning Cycle model assisted by Google Sites interactive media is higher than the understanding of mathematical concepts of students who are learned with the conventional model. Thus, it can be concluded that the application of the 5E Learning Cycle model assisted by Google Sites interactive media has a positive influence on the understanding of mathematical concepts of grade VII students of Undiksha Singaraja Laboratory Junior High School

Keywords: *5E Learning Cycle Model, Google Sites, Students' Understanding of Mathematics Concepts*