

Febilia Fitriyani. 2025. *Penerapan Model ADI Berbantuan Google Sites untuk Meningkatkan Penalaran Ilmiah Peserta Didik*. Skripsi, Program Studi Pendidikan IPA, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madura, Pembimbing: Aida Fikriyah.

ABSTRAK

Tujuan penelitian ini yaitu untuk mengetahui perbedaan penalaran ilmiah peserta didik pada kelas eksperimen dan kelas kontrol, mengetahui peningkatan penalaran ilmiah peserta didik setelah menerapkan model ADI berbantuan *google sites*, mengetahui keterlaksanaan penerapan model ADI berbantuan *google sites* dalam meningkatkan penalaran ilmiah peserta didik, mengetahui respons peserta didik setelah menggunakan model ADI berbantuan *google sites*. Penelitian ini termasuk penelitian kuantitatif dengan metode *quasi eksperimental*. Penelitian dilaksanakan di SMP Nusantara Krian. Populasi penelitian yaitu semua peserta didik kelas VII tahun ajaran 2025/2027. Pengambilan sampel menggunakan teknik *purposive sampling*. Sampel yang digunakan yaitu kelas VII D sebagai kelas eksperimen dan kelas VII B kelas kontrol. Hasil penelitian menunjukkan bahwa: 1) Ada perbedaan penalaran ilmiah di kelas eksperimen dan kelas kontrol dengan nilai signifikansi *posttest* sebesar 0,000 yang artinya kurang dari 0,05. 2) Peningkatan penalaran ilmiah peserta didik setelah penerapan model ADI berbantuan *google sites* berada dalam kategori rendah dengan rata-rata skor *N-Gain* sebesar 0,16. 3) Keterlaksanaan pembelajaran terlaksana dengan sangat baik dengan rata-rata persentase mencapai 99,40. 4) Respons peserta didik menunjukkan sangat tinggi dengan rata-rata skor mencapai 84,42%.

Kata kunci: model ADI, penalaran ilmiah, *google sites*

Febilia Fitriyani. 2025. Implementation of ADI Assisted by Google Sites to Improve Students' Scientific Reasoning. Thesis, Science Education Study Program, Faculty of Teacher Training and Education, University of Trunodjoyo Madura, Advisor: Aida Fikriyah.

ABSTRACT

Purpose of this study was to determine the differences in scientific reasoning of students in the experimental class and the control class, to determine the increase in scientific reasoning of students after implementing the ADI model assisted by Google Sites, to determine the implementation of the ADI model assisted by Google Sites in improving scientific reasoning of students, to determine the response of students after using the ADI model assisted by Google Sites. This study includes quantitative research with a quasi-experimental method. The study was conducted at SMP Nusantara Krian. The study population was all students of grade VII in the 2025/2027 academic year. Sampling used a purposive sampling technique. The samples used were class VII D as the experimental class and class VII B as the control class. The results of the study showed that: 1) There were differences in scientific reasoning in the experimental class and the control class with a posttest significance value of 0.000 which means less than 0.05. 2) The increase in students' scientific reasoning after the implementation of the ADI model assisted by Google Sites is in the low category with an average N-Gain score of 0.16. 3) The implementation of learning was carried out very well with an average percentage reaching 99.40. 4) The students' responses showed very high with an average score reaching 84.42%.

Keywords: *ADI model, scientific reasoning, google sites*