

ABSTRAK

ANGGI SINTIA MEILANI : “Pengaruh Model Pembelajaran RADEC terhadap Peningkatan Keterampilan Proses Sains Siswa pada Materi Ekosistem”

Keterampilan proses sains merupakan keterampilan yang harus dikuasai peserta didik pada pendidikan abad 21. Penelitian ini bertujuan untuk menganalisis pengaruh model RADEC terhadap keterampilan proses sains pada materi ekosistem. Metode yang digunakan yaitu *quasi experiment* dengan desain penelitian *non-equivalent control group design*. Penelitian dilakukan di salah satu SMP di Kabupaten Purwakarta dengan sampel penelitian terdiri dari 34 peserta didik pada kelas eksperimen maupun kelas kontrol. Hasil penelitian menunjukkan bahwa keterlaksanaan pembelajaran menggunakan model pembelajaran RADEC memperoleh nilai persentase sebesar 98,7% pada aktivitas guru dan 98% pada aktivitas siswa. Peningkatan keterampilan proses sains siswa kelas eksperimen dan kontrol memperoleh nilai *N-Gain* sebesar 0,51 (sedang) dan 0,39 (sedang), serta ditunjukkan dengan perolehan nilai signifikansi pada uji T sebesar $0,023 < 0,05$ (H_1 diterima), dan berdasarkan uji *effect size* memperoleh angka 0,57 (sedang). Respon siswa terhadap pembelajaran tergolong baik dengan rata-rata keseluruhan 82%. Berdasarkan penelitian yang telah dilakukan dapat disimpulkan bahwa penggunaan model pembelajaran RADEC berpengaruh terhadap peningkatan keterampilan proses sains siswa pada materi ekosistem.

Kata Kunci : Ekosistem, Keterampilan Proses Sains, RADEC



ABSTRACT

ANGGI SINTIA MEILANI : “The Effect of the RADEC Model on Improving Students' Science Process Skills in Ecosystem Material”

Science process skills are skills that must be mastered by students in 21st century education. This study aims to analyze the effect of the RADEC model on science process skills in ecosystem material. The method used is a quasi-experimental research design with a non-equivalent control group design. The study was conducted in one of the junior high schools in Purwakarta Regency with a research sample consisting of 34 students in the experimental class and the control class. The results showed that the implementation of learning using the RADEC learning model obtained a percentage value of 98,7% in teacher activities and 98% in student activities. The increase in science process skills of students in the experimental and control classes obtained an N-Gain value of 0.51 (moderate) and 0.39 (moderate), and was indicated by the acquisition of a significance value in the T test of $0.023 < 0.05$ (H_1 is accepted), and based on the effect size test obtained a figure of 0.57 (moderate). Student responses to learning were classified as good with an overall average of 82%. Based on the research that has been done, it can be concluded that the use of the RADEC learning model has an effect on improving students' science process skills in ecosystem material.

Keywords: *Ecosystems, Science Process Skills, RADEC*

