

Nurul Hilmia. 2018. *Penerapan STEM Project-Based Learning Terhadap Kemampuan Berpikir Kreatif Siswa Pada Mata Pelajaran IPA*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: (I) Laila Khamsatul Muharrami, (II) Irsad Rosidi.

ABSTRAK

Penelitian ini untuk mengetahui penerapan *STEM Project-Based Learning* terhadap kemampuan berpikir kreatif siswa. Penelitian ini dilaksanakan di SMP Negeri 3 Sampang pada bulan Juli 2018/2019 pada kelas VIII. Sampel yang diteliti terdiri dari 1 kelas yaitu kelas VIII E. Desain penelitian yang digunakan adalah *Pre-Experimental Design* dengan teknik penelitian yaitu *One Group Pretest-Posttest*. Teknik pengambilan sampel menggunakan *purposive sampling*. Hasil tes yang diperoleh menggunakan uji t sampel berpasangan (*paired sample test*). Berdasarkan hasil penelitian dapat disimpulkan bahwa: Terdapat perbedaan setelah penerapan *STEM Project-Based Learning* terhadap kemampuan berpikir kreatif siswa. Hal ini dibuktikan dari nilai uji t berpasangan diperoleh $-t_{hitung} < t_{tabel} < t_{hitung}$ ($-22,859 < 2,039 < 22,859$). Kemampuan berpikir kreatif siswa meningkat setelah penerapan *STEM Project-Based Learning* diperoleh persentase rata-rata pada *pretest* sebesar 25,93% dan pada *posttest* sebesar 71%. Keterlaksanaan pembelajaran dengan penerapan *STEM Project-Based Learning* terhadap kemampuan berpikir kreatif siswa diperoleh persentase sebesar 91% dengan kategori sangat baik. Respon siswa terhadap penerapan *STEM Project-Based Learning* dikatakan baik, hal ini dibuktikan dari hasil persentase angket respon siswa sebesar 66% dengan kriteria positif.

Kata Kunci : Berpikir Kreatif, *Project-Based Learning*, *STEM*

Nurul Hilmia. 2018. *The STEM Project-Based Learning Application Toward the Students' Creative Thinking Skill in Science Subject*. Thesis, Natural Science Education Departement, Education Faculty, University of Trunojoyo Madura. Advisor (1) Laila Khamsatul Muharrami (II) Irsad rosidi.

ABSTRACT

The research is to know *STEM Project-Based Learning* application toward creative thinking skill of students in science learning. This study was conducted at SMPN 3 Sampang in July 2018/2019 on VIII grade students. The sample was divided into 1 class, that is class VIII E. The research method design used a *Pre-Experimental Design* with the research technique of *One Group Pretest-Posttest Design*. The sampling technique used *purposive sampling*. The test result were measured by using paired t test (*paired sample test*). Based on the result of the research, it can be concluded: There is difference after *STEM Project-Based Learning* application toward the students creative thinking skill in science learning. This is evidenced from the value paired sample test obtained $-t_{hitung} < t_{tabel} < t_{hitung}$ ($-22,859 < 2,039 < 22,859$). The students creative thinking skill increases after treatment *STEM Project-Based Learning* obtained the average percentase at the pretest of 25,93% and the posttest of 71%. The learning implementation *STEM Project-Based Learning* application toward the students creative thinking skill was obtained as at the percentage of 91% on the best category. The students response *STEM Project-Based Learning* application was better, this was proven by the response percentage of 66% on piositive criteria.

Key Words: Creative Thinking, *Project-Based Learning*, *STEM*