ABSTRAK

AI NURIYAH 2023. **Pengaruh Model *Project Based Learning* terhadap Keterampilan Berpikir Kritis dan Keterampilan Kolaborasi pada Materi Bioteknologi (Studi Eksperimen di Kelas XII MIPA SMA Negeri 1 Taraju Tahun Ajaran 2022/2023).** Skripsi Jurusan Pendidikan Biologi Fakultas Keguruan dan Ilmu Pendidikan Universitas Siliwangi, Tasikmalaya.

Tujuan dari penelitian ini untuk mengetahui pengaruh model *project based learning* terhadap keterampilan berpikir kritis dan keterampilan kolaborasi pada materi bioteknologi di kelas XII MIPA SMA Negeri 1 Taraju. Penelitian ini menggunakan pendekatan kuantitatif dengan metode *quasi eksperimen*. Populasi penelitian ini adalah seluruh kelas XII MIPA sebanyak 127 peserta didik. Teknik pengambilan sampling menggunakan teknik *purposive sampling* sehingga sampel pada penelitian ini sebanyak 64 peserta didik. Instrumen yang digunakan terdiri dari tes dan non tes. Tes berupa soal uraian sebanyak 16 butir soal untuk mengukur keterampilan berpikir kritis. Non tes berupa angket keterampilan kolaborasi sebanyak 24 butir pernyataan untuk mengukur keterampilan kolaborasi. Teknik analisis data menggunakan uji ANOVA. Hasil penelitian ini menunjukkan terdapat pengaruh model *project based learning* terhadap keterampilan berpikir kritis dan keterampilan kolaborasi dibuktikan dengan hasil perhitungan menggunakan uji ANOVA dengan perolehan nilai signifikasi kurang dari 0,05 yaitu sebesar 0,00. Sehingga dapat disimpulkan terdapat pengaruh model *project based learning* terhadap keterampilan berpikir kritis dan keterampilan kolaborasi peserta didik pada materi bioteknologi di kelas XII MIPA SMA Negeri 1 Taraju semester genap tahun ajaran 2022/2023.

Kata Kunci: *Project Based Learning*; Keterampilan Berpikir Kritis; Keterampilan Kolaborasi.

ABSTRACT

AI NURIYAH 2023. *The Effect of the Project Based Learning Model on Critical Thinking Skills and Collaboration Skills in Biotechnology Material (Experimental Study in Class XII MIPA SMA Negeri 1 Taraju Academic Year 2022/2023).* *Thesis Department of Biology Education, Teaching and Education Faculty, Siliwangi University of Tasikmalaya..*

The purpose of this study was to determine the effect of the project based learning model on critical thinking skills and collaboration skills in biotechnology material in class XII MIPA SMA Negeri 1 Taraju. This study uses quantitative approach with quasi-experimental method. The population of this study was all class XII MIPA as many 127 students. The sampling technique used purposive sampling technique that the sample in this study was 64 students. The instruments used consisted of tests and non-tests. The test is in the form of description of 16 items to measure critical thinking skills. The non-test is in the form of collaboration skills questionnaire consisting of 24 statement items to measure collaboration skills. The data analysis technique uses the ANOVA test. The results of this study indicate that there is an influence of the project based learning model on critical thinking skills and collaboration skills as evidenced by the results of calculations using the ANOVA test with significance value of less than 0.05, which is equal to 0.00. Concluded that there is an influence of the project based learning model on students' critical thinking skills and collaboration skills in biotechnology material in class XII MIPA SMA Negeri 1 Taraju even semester of the 2022/2023 academic year.

Keywords: Project Based Learning; Critical Thinking Skills; Collaboration Skills.