

ABSTRAK

Sofyana, Nana. 2022 “*Meningkatkan Kemampuan Berpikir Kritis Siswa SMP Negeri 1 Tungkal Ulu Pada Materi Bioteknologi Melalui Model Project Based Learning*” Tesis, Program Studi Magister Pendidikan IPA, Universitas Jambi. Pembimbing (1) Dr. Upik Yelianti, M.S (2) Dr. Dra M. Dwi Wiwik Ernawati, M.Kes.

Pembelajaran pada abad 21 diharapkan mampu mengatasi permasalahan pada proses pembelajaran yang salah satunya melalui model pembelajaran berbasis proyek (*Project Based Learning*). Penelitian ini dilakukan di SMP Negeri 1 Tungkal Ulu dalam pembelajaran IPA, melalui observasi menunjukkan bahwa pembelajaran masih berpusat pada guru (*teacher centered*) serta kemampuan berpikir kritis masih rendah. Tujuan penelitian ini adalah untuk mengetahui penerapan model *Project Based Learning* dapat meningkatkan kemampuan berpikir kritis siswa pada materi Bioteknologi kelas IX A SMP Negeri 1 Tungkal Ulu. Metode penelitian yang digunakan adalah metode Penelitian Tindakan Kelas (*Classroom Action Research*). Penelitian ini dilakukan dalam dua siklus dan pada siklus ke I Kemampuan berpikir kritis siswa cukup meningkat sesuai dengan rencana pembelajaran, hasilnya adalah 17 siswa tuntas dengan persentase 56,67%, dan 13 siswa tidak tuntas dengan persentase 43%. Berdasarkan hasil pada siklus ke 1 siswa cukup antusias dalam mengikuti pembelajaran pada materi Bioteknologi. Sesuai dengan refleksi sehingga peneliti harus dilanjutkan pada siklus kedua. Pada siklus II berhasil diperbaiki pembelajaran dengan hasilnya adalah 26 siswa tuntas dalam mengikuti pembelajaran dengan persentase 86,67 %, namun terdapat 4 siswa yang tidak tuntas dengan persentase 13,33%. Berdasarkan pemantauan tindakan aktivitas guru dan pemantauan tindakan aktivitas siswa dengan menerapkan model *Project Based Learning* memperoleh persentase pada siklus 1 sebesar 81,66 % hasil tindakan guru dan 51,15% hasil tindakan siswa. pada siklus II 93,3 hasil tindakan guru dan 66,66 % hasil tindakan siswa. Dengan demikian penerapan model *Project Based Learning* dapat meningkatkan kemampuan berpikir kritis siswa kelas IX A SMPN 1 Tungkal Ulu pada materi bioteknologi.

Kata Kunci : Kemampuan berpikir kritis, Bioteknologi, PjBL

ABSTRACT

Sofyana, Nana. 2022 “Improving Critical Thinking Skills for Students of SMP Negeri 1 Tungkal Ulu on Biotechnology Materials Through Project Based Learning Models” Thesis, Master of Science Education Study Program, Jambi University. Supervisor (1) Dr. Upik Yelianti, M.S (2) Dr. Dra M. Dwi Wiwik Ernawati, M.Kes.

Learning in the 21st century is expected to be able to overcome problems in the learning process, one of them is through a project-based learning model. This research was conducted at SMP Negeri 1 Tungkal Ulu in learning science, through observations showed that learning was still teacher centered and critical thinking skills were still low. The purpose of this study was to determine the application of the Project Based Learning model to improve students' critical thinking skills in class IX A Biotenology at SMP Negeri 1 Tungkal Ulu. The research method used is the Classroom Action Research method. This research was conducted in two cycles and in the first cycle, students' critical thinking skills increased quite a bit according to the lesson plan, the result was 17 students completed with a percentage of 56.67%, and 13 students did not complete with a percentage of 43%. Based on the results in the first cycle, students were quite enthusiastic in participating in learning on Biotechnology material. In accordance with the reflection so that the researcher must continue in the second cycle. In the second cycle the learning was successfully improved with the result that 26 students completed the lesson with a percentage of 86.67%, but there were 4 students who did not complete with a percentage of 13.33%. Based on monitoring teacher activity actions and monitoring student activity actions by applying the Project Based Learning model, the percentage in cycle 1 was 81.66% the results of teacher actions and 51.15% the results of student actions. in the second cycle 93.3 the results of the teacher's actions and 66.66% of the results of student actions. Thus the application of the Project Based Learning model can improve the critical thinking skills of class IX A students of SMPN 1 Tungkal Ulu on biotechnology materials.

Keywords: Biotechnology, Critical thinking ability, PjBL