

ABSTRAK

IRHAM RAMADHANI (NIM: 8126175007). Efek Model Pembelajaran Berbasis Proyek Dengan Strategi *Think Talk Write* Dan Kreativitas Ilmiah Terhadap Kemampuan Berpikir Tingkat Tinggi Fisika Siswa SMA Negeri I Babalan. Tesis. Medan: Program Pascasarjana Universitas Negeri Medan, 2015.

Penelitian ini bertujuan untuk menganalisis: (1) perbedaan keterampilan berpikir tingkat tinggi fisika siswa pada model pembelajaran berbasis proyek dengan strategi *think talk write* dan pembelajaran konvensional; (2) perbedaan kemampuan berpikir tingkat tinggi siswa yang memiliki kreativitas di atas rata-rata dan di bawah rata-rata; dan (3) interaksi antara model pembelajaran dengan tingkat kreativitas ilmiah dalam mempengaruhi kemampuan berpikir tingkat tinggi siswa. Penelitian ini merupakan penelitian quasi eksperimen. Pemilihan sampel dilakukan dengan teknik cluster random sampling sebanyak dua kelas yaitu kelas XII IA 1 dan XII IA 2, dimana kelas XII IA 1 diajarkan dengan model pembelajaran berbasis proyek dengan strategi *think talk write* dan kelas XII IA 2 dengan pembelajaran konvensional. Instrumen yang digunakan terdiri dari tes keterampilan berpikir tingkat tinggi berupa tes essay dan tes kreativitas ilmiah yang dikembangkan oleh Hu dan Adey (2002). Data dalam penelitian ini dianalisis dengan menggunakan anava dua jalur. Hasil penelitian menunjukkan bahwa keterampilan berpikir tingkat tinggi fisika menggunakan model pembelajaran berbasis proyek dengan strategi *think talk write* berbeda dan menunjukkan hasil yang lebih baik dibandingkan dengan pembelajaran konvensional, kemampuan berpikir tingkat tinggi siswa dengan kreativitas ilmiah di atas rata-rata berbeda dan menunjukkan hasil lebih baik dari pada siswa dengan kreativitas ilmiah di bawah rata-rata, serta terdapat interaksi antara model pembelajaran berbasis proyek dengan strategi *think talk write* dan kreativitas ilmiah dalam mempengaruhi keterampilan berpikir tingkat tinggi siswa.

Kata Kunci: Model Pembelajaran Berbasis Proyek, Strategi *Think Talk Write*, Kreativitas Ilmiah, Keterampilan berpikir tingkat tinggi.

ABSTRACT

IRHAM RAMADHANI (NIM: 8126175007). The Effect of Project Based Learning Model With Think Talk Write Strategy and Scientific Creativity on Student's High Order Thinking Skills In Senior High School Physics. Thesis. Medan: Post Graduate Program, State University of Medan, 2015.

The aims of this research were to analyze: (1) the differences of student's high order thinking skills by using Project Based Learning Model with Think Talk Write Strategy and conventional learning; (2) the differences of student's high order thinking skills who had under average and above average category in scientific creativity; and (3) the interaction between learning model and the level of scientific creativity in influencing student's high order thinking skills. This research was a quasi-experimental research. The sample in this research was conducted by cluster random sampling of two classes that is XII IA 1 dan XII IA 2, which the first class, as experiment class, was taught with Project Based Learning Model with Think Talk Write Strategy and second class, as control class, with Conventional Learning. The research instrument consisted of high order thinking skills essay tes and scientific creativity test that developed by Hu and Adey (2002). Data in this research was analyzed by using two way Anova. The results of the research showed that the physics high order thinking skills using project based learning model with Think Talk Write strategy was different and show better results than the conventional learning, the physics high order thinking skills of the students who had above average category in scientific creativity was differ and show better results than under average category, and there was interaction between project based learning model with Think Talk Write strategy and the level of scientific creativity in influencing student's high order thinking skills.

Keyword : Project Based Learning Model, Think Talk Write Strategy, Scientific Creativity, High Order Thinking Skill