

## ABSTRAK

**YUL IFDA TANJUNG : Efek Model Pembelajaran *Inquiry Training* Berbasis *Just In Time Teaching* Dan Sikap Ilmiah Terhadap Kemampuan Pemecahan Masalah Fisika Mahasiswa.** Tesis Medan. Program Studi Pendidikan Fisika Pascasarjana Universitas Negeri Medan 2014.

Penelitian ini bertujuan untuk menganalisis perbedaan kemampuan pemecahan masalah Fisika mahasiswa pada model pembelajaran *Inquiry Training* berbasis *Just In Time Teaching* dan pembelajaran konvensional yang diajar dengan model kooperatif, perbedaan kemampuan pemecahan masalah Fisika mahasiswa yang memiliki sikap ilmiah di atas rata-rata dan di bawah rata-rata, serta interaksi antara model pembelajaran dengan tingkat sikap ilmiah dalam mempengaruhi kemampuan pemecahan masalah Fisika mahasiswa. Penelitian ini merupakan penelitian quasi eksperimen dengan populasi penelitian adalah mahasiswa Prodi Pendidikan Fisika Jurusan Fisika Universitas Negeri Medan. Pemilihan sampel dilakukan dengan teknik *cluster random sampling*. Instrumen yang digunakan terdiri dari tes kemampuan pemecahan masalah, dan angket sikap ilmiah. Data dalam penelitian ini dianalisis dengan menggunakan Anova dua jalur. Hasil penelitian menunjukkan bahwa kemampuan pemecahan masalah Fisika menggunakan model pembelajaran *Inquiry Training* berbasis *Just In Time Teaching* lebih baik dibandingkan dengan pembelajaran konvensional yang diajar dengan model kooperatif dan kemampuan pemecahan masalah Fisika pada kelompok mahasiswa yang memiliki sikap ilmiah di atas rata-rata lebih baik dibandingkan pada kelompok mahasiswa di bawah rata-rata, serta ada interaksi antara model pembelajaran *Inquiry Training* berbasis *Just In Time Teaching* dengan tingkat sikap ilmiah dalam mempengaruhi kemampuan pemecahan masalah fisika mahasiswa.

*Kata Kunci : Inquiry Training, Sikap Ilmiah, Kemampuan Pemecahan Masalah Fisika, Just In Time Teaching.*

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UNIVERSITY

## ABSTRACT

**YUL IFDA TANJUNG : The Effect of Just In Time Teaching based Inquiry Training Learning Model and Scientific Attitude on Problem Solving Ability.**  
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The aims of this research were to analyze the differences in problem solving ability of students by using Just In Time Teaching based Inquiry Training Learning Model and conventional learning that was taught with cooperative model, the differences in problem solving ability of students who have under average and above average category in scientific attitude, and the interaction between the learning model and the level of scientific attitude to influence the problem solving ability. The type of this research was quasi experimental research. The population was students in Undergraduate Education Physics of State University of Medan. The sample was chosen by using cluster random sampling technique. The instrument was consist of test of problem solving ability, and test of scientific attitude. This research data was analyzed by using two way Anova. The result of this research showed that: The problem solving ability of Physics using Just In Time Teaching based Inquiry Training Learning Model was better than problem solving ability of physics using conventional learning model that was taught with cooperative model and the problem solving ability of physics in the students who have above average category in the scientific attitude was better than under average category, and there was interaction between Just In Time Teaching based Inquiry Training Learning Model and the level of scientific attitude to influence the problem solving ability.

*Keywords : Inquiry Training, Scientific Attitude, Problem solving Ability, Just in Time Teaching.*