

**Implementation of Problem-Based Instruction (PBI) Model For Increasing Students' Intrinsic Motivation and Learning Achievement in Optic Instruments Topic at SMA Islam Al-Ulum Terpadu Medan Academic Year 2011-2012. Thesis Department of Physics, Physics Education Studies Program, Faculty of Mathematics and Natural Science UNIMED 2012.**

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**ABSTRAK**

Penelitian tentang penerapan model pembelajaran PBI untuk meningkatkan motivasi intrinsik dan hasil belajar siswa di SMA Islam Al-Ulum Terpadu Medan di kelas X dilakukan karena rendahnya hasil belajar pembelajaran fisika, khususnya dalam menyelesaikan masalah yang dihadapi dalam kehidupan sehari-hari. Tujuan dari penelitian ini adalah untuk mengetahui peningkatan motivasi intrinsik dan hasil belajar siswa dari ranah kognitif, afektif dan psikomotorik.

Metode yang digunakan dalam penelitian ini adalah *quasi experiments* dengan *one group post-test, pre test design*. Populasi dalam penelitian ini adalah seluruh siswa kelas X di SMA Islam Al-Ulum Terpadu Medan. Sampel dalam penelitian ini adalah siswa kelas X di SMA Islam Al-Ulum Terpadu, Medan tahun ajaran 2011-2012 terdiri dari satu kelas, dengan total siswa 26 siswa dengan *random sampling technic*.

Hasil analisis dalam penelitian ini menunjukkan bahwa; (1) peningkatan motivasi intrinsik berdasarkan rata-rata gain ternormalisasi ( $\langle g \rangle$ ) setelah menerapkan model pembelajaran PBI adalah 0,362 dengan kategori medium, dan (2) peningkatan hasil belajar siswa berdasarkan rata-rata gain ternormalisasi ( $\langle g \rangle$ ) setelah menerapkan model pembelajaran PBI adalah 0,556 pada ranah kognitif, 0,600 pada ranah afektif termasuk ke dalam medium kategori dan 0,722 pada ranah psikomotorik termasuk pada kategori tinggi.

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**ABSTRACT**

Research about implementation of problem-based instruction (PBI) model for increasing students' intrinsic motivation and learning achievement at SMA Islam Al-Ulum Terpadu Medan in class X is done because of students' low achievement in physics study, especially in solving of daily life physics problem. These research objectives are to determine the increasing of intrinsic motivation and student learning achievement of cognitive, affective and psychomotor domain.

Method of this research is by using quasi experiments with one group post-test, pre-test design. Populations in this research were all students of grade X in SMA Islam Al-Ulum Terpadu Medan. The sample in this research are students of grade X SMA Islam Al-Ulum Terpadu, Medan academic year 2011-2012 consists of one class, totaling 26 students based on simple random sampling technique.

The results of quantitative analysis in this research show that; (1) improvement of students' intrinsic motivation based on average gain normalized ( $\langle g \rangle$ ) after implement Problem Based Instruction Learning model is equal to 0.362 in a medium category, and (2) improvement of students' learning achievement based on average normalized gain ( $\langle g \rangle$ ) after implement Problem-Based Instruction learning model is 0.556 of cognitive domain, 0.600 of affective domain including into medium category and 0.722 of psychomotor domain including into high category.