**ABSTRAK**

Asep Suhendra (2017). “Implementasi Problem Based Learning Dalam Peningkatan Kemampuan Penalaran Pemecahan Masalah Matematis Serta Sikap Terhadap Matematika Siswa”. Fakultas Pascasarjana, Universitas Pasundan Bandung.

Penelitian ini dilatarbelakangi oleh rendahnya kemampuan penalaran dan pemecahan masalah serta sikap terhadap matematika siswa. Penelitian ini mengkaji tentang, Peningkatan Kemampuan Penalaran Dan Pemecahan Masalah Serta Sikap Terhadap Matematika Siswa dan perbedaan antara siswa yang menerapkan Strategi Pembelajaran *Problem Based Learning (PBL)* dengan siswa yang memperoleh model pembelajaran konvensional, serta hubungan kemampuan penalaran dan pemecahan masalah serta sikap terhadap matematika siswa. Metode yang digunakan pada penelitian ini adalah *mixed methods* tipe *embedded.* Populasi penelitian adalah siswa kelas XI SMK Negeri 1 Talaga yang terdaftar pada tahun pelajaran 2016/2017.Sampel yang digunakan adalah dua kelas dari 5 kelas yang ada.Instrumen yang digunakan untuk mengumpulkan data berupa instrument tes kemampuan koneksi matematis dan motivasi belajar siswa, skala sikap, lembar observasi, angket dan wawancara. Data yang diperoleh dianalisis menggunakan uji perbedaan rerata yaitu Uji-t (kuantitatif) dan deskripsi (kualitatif). Hasil penelitian menunjukkan bahwa 1) Peningkatan kemampuan penalaran matematis siswa yang menerapkan strategi Pembelajaran *Problem Based Learning (PBL)* lebih baik daripada siswa yang menggunakan model pembelajaran konvesional 2)Peningkatan kemampuan pemecahan masalah matematis siswa yang menerapkan strategi Pembelajaran *Problem Based Learning (PBL)* lebih baik daripada siswa yang menggunakan model pembelajaran konvesional. 3) Terdapat hubungan antara kemampuan penalaran dan pemecahan masalah matematis siswa, 4) sikap siswa positif terhadap pembelajaran matematika dengan menggunakan pembelajaran *Problem Based Learning (PBL)*

**Kata Kunci***: Problem Based Learning (PBL),* Kemampuan penalaran matematis, Kemampuan Pemecahan Masalah Matematis Serta Sikap Terhadap Matematika.

ABSTRACT

Asep Suhendra (2017). “Implementation of Problem Based Learning In Upgrades Reasoning Mathematical Problem Solving And Attitudes Toward Math Students ". Faculty of Graduate Studies, University of Pasundan Bandung

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 This research is motivated by the lack of reasoning and problem-solving abilities and attitudes towards mathematics students. This study reviews, Upgrades Reasoning and Problem Solving And Attitudes Toward Math Students and the difference between students who apply Learning Strategy Problem Based Learning (PBL) with students who received conventional learning models, as well as the relationship reasoning ability and problem solving as well as attitudes towards mathematics students , The method used in this study is a mixed methods embedded type. The study population was a class XI student of SMK Negeri 1 Talaga is enrolled in the academic year 2016 / 2017.Sampel used are two classes of fifth grade that ada.Instrumen used to collect data in the form of instrument test the ability of mathematical connections and student motivation, attitude scale , observation sheets, questionnaires and interviews. Data were analyzed using mean difference test ie t-test (quantitative) and descriptions (qualitative). The results showed that 1) Improving the ability of mathematical reasoning students' strategy Learning Problem Based Learning (PBL) is better than students who use learning models conventional 2) Increasing the capability of solving mathematical problem of students who apply strategies Learning Problem Based Learning (PBL) is better than students who use conventional learning models. 3) There is a relationship between the ability of reasoning and problem solving mathematical students, 4) positive student attitudes towards learning mathematics by using learning Problem Based Learning (PBL)

Keywords: Problem Based Learning (PBL), mathematical reasoning ability, ability Mathematical Problem Solving And Attitudes Toward Mathematics