

## ABSTRAK

**Brigitta Dwi Utami. 2012. Pengembangan Pemahaman Siswa Tentang Kalor dan Perpindahannya Berdasarkan Identifikasi *Zone of Proximal Development* (ZPD) Siswa Kelas VIIB SMP Pangudi Luhur 1 Yogyakarta. Skripsi. Program Studi Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan. Universitas Sanata Dharma. Yogyakarta.**

Penelitian ini bertujuan untuk mengetahui: (1) Pemahaman awal siswa tentang kalor dan perpindahannya sebelum pembelajaran, (2) Profil *Zone of Proximal Development* siswa tentang kalor dan perpindahannya, (3) Pemahaman akhir siswa tentang kalor dan perpindahannya setelah pembelajaran yang dirancang berdasarkan *Zone of Proximal Development*.

Penelitian dilaksanakan dari bulan Maret-April 2016 di SMP Pangudi Luhur 1 Yogyakarta dengan subyek siswa kelas VIIB. Pengumpulan data menggunakan *pretest* dan wawancara pra pembelajaran, untuk menentukan ZPD siswa, *posttest* dan wawancara akhir pembelajaran.

Hasil Penelitian menunjukkan bahwa pemahaman awal siswa masih berada di klasifikasi sedang dan dapat ditentukan dimana letak *Zone of Proximal Development* (ZPD) siswa untuk merancang pembelajaran yang efektif.

Kata Kunci: *Pemahaman, Zone of Proximal Development, Pengembangan*

## ABSTRACT

**Brigitta Dwi Utami. 2012. The Development of Students Understanding About Kalor and The Movement Based on Zone of Proximal Development (ZPD) Identification of 7<sup>th</sup> B Grader Students of Pangudi Luhur 1 Yogyakarta Junior High School. Physic Education Study Program. Departement of Mathematics and Science Education. Faculty of Teacher Training and Education. Sanata Dharma University. Yogyakarta.**

*This research aims to know: (1) Initial understanding of students about Kalor and The movement before learning, (2) Profil Zone of Proximal Development of students about Kalor and The Movement, (3) Final understanding of students about Kalor and The Movement after learning that are designed based on the Zone of Proximal Development.*

*Research carried out from March until April 2016 in Junior High School Pangudi Luhur 1 Yogyakarta with subject were students of class VIIB. Data collection use pretest and interview before learning, to determine ZPD of students, posttest and interview after learning.*

*The result research showed that the initial understanding was still in the middle classification and be determined where the location Zone of Proximal Development(ZPD) of students to design effective learning.*

**Keywords:** *Understanding, Zone of Proximal Development, Development*