ABSTRAK

YESSI JURNALA. Pengembangan Model Pembelajaran Berbasis Pendekatan Realistik untuk Meningkatkan Kemampuan Komunikasi Matematis dan *Self-Efficacy* Siswa SMP Lhokseumawe. Tesis. Program Studi Pendidikan Matematika Pascasarjana Universitas Negeri Medan. 2016.

Penelitian ini bertujuan untuk : 1) mendeskripsikan kemampuan komunikasi matematis siswa melalui model pembelajaran berbasis pendekatan realistik; 2) mendeskripsikan peningkatan *self-efficacy* matematis siswa melalui model pembelajaran berbasis pendekatan realistik; 3) mengembangkan model pendekatan realistik dalam meningkatkan kemampuan komunikasi dan *self-efficacy* matematis siswa yang efektif; 4) menemukan pendekatan realistik yang efektif dalam meningkatkan kemampuan komunikasi dan *self-efficacy* matematis siswa; 5) mendeskripsikan respon siswa terhadap pengembangan model pembelajaran berbasis pendekatan realistik yang dikembangkan dalam meningkatkan kemampuan komunikasi dan *self-efficacy* matematis siswa. Jenis penelitian ini adalah penelitian model pengembangan Plomp, yang dikemukakan oleh Plomp. Teknik pengumpulan data menggunakan lembar validasi, tes kemampuan komunikasi matematis dan angket *self-efficacy*. Hasil penelitian menunjukkan model pembelajaran berbasis pendekatan realistik telah memenuhi kualitas valid, praktis dan efektif. Adapun tahap-tahap dalam pengembangan model ini adalah tahap investigasi awal, tahap desain, tahap realisasi, dan tahap tes, evaluasi dan revisi. Adapun sintaks model pembelajaran berbasis pendekatan realistik adalah (1) memahami masalah kontekstual, (2) menjelaskan masalah kontekstual, (3) menyelesaikan masalah kontekstual dengan menggunakan media/alat peraga *goeboard*, (4) membandingkan/mendiskusikan jawaban dengan menggunakan media/alat peraga *goeboard*, (5) menyimpulkan.

Kata kunci: Pengembangan Model Pembelajaran, Model Plomp, berbasis Pendekatan Realistik, Komunikasi Matematis dan *self-efficacy*.

ABSTRACT

YESSI JURNALA. Developing a Realistic Approach Based Learning Model to Improve Communication Skills and *Self-Efficacy* Mathematical Junior High School Students Lhokseumawe. *Thesis*. Mathematics Education Graduate University of Medan. 2016.

This study aimed to: 1) describe the mathematical communication skills of students through realistic approach based learning model; 2) describe an increase in *self-efficacy* mathematical models based learning students through realistic approach; 3) develop a model of realistic approach to improve communication skills and *self-efficacy* students' mathematical effective; 4) finding realistic approaches that are effective in improving communication skills and *self-efficacy* students' mathematical; 5) The students' response to the development of realistic approach based learning model that was developed to improve communication skills and *self-efficacy* mathematical students. This type of research is research Plomp development model, proposed by Plomp. Data collection techniques using sheet validation, test mathematical communication skills and *self-efficacy* questionnaire. The results showed a realistic approach based learning model has met the quality valid, practical and effective. The stages in the development of this model is the initial investigation phase, the design phase, the realization phase, and the phase of the test, evaluation and revision. The syntax-based learning model realistic approach is : (1) understand the contextual problem, (2) explain the contextual problem, (3) complete the contextual problems with using the media/props goeboard, (4) compare/discuss the answer by using media/props goeboard, (5) concludes.

Keywords: Learning Model Development, Model Plomp, based Realistic Approach, Mathematical Communication and *self-efficacy*