ABSTRAK

PATRI JANSON SILABAN. Pengembangan Model Pembelajaran Pendidikan Matematika Realistik Indonesia Berbasis Budaya Batak Toba Untuk Meningkatkan Kemampuan *HOTS* Calon Guru Sekolah Dasar. Medan: Program Pascasarjana Universitas Negeri Medan. Juni 2024.

Penelitian ini bertujuan mengembangkan dan menguji tingkat kevalidan, kepraktisan, keefektifan dalam penerapan Model Pembelajaran Pendidikan Matematika Realistik Indonesia Berbasis Budaya Batak Toba Untuk Meningkatkan Kemampuan *HOTS* Calon Guru Sekolah Dasar. Metode penelitian yang digunakan adalah penelitian pengembangan (Developmental Research). Model Pembelajaran Pendidikan Matematika Realistik Indonesia Berbasis Budaya Batak Toba dikembangkan memenuhi kriteria komponen model pembelajaran yakni: sintaks model, system social, prinsip reaksi pengelolaan, system pendukung, dampak instruksional, dan dampang pengiring serta instrumen-instrumen yang diperlukan. Pengembangan Model Pembelajaran Pendidikan Matematika Realistik Indonesia Berbasis Budaya Batak Toba yang dilakukan mengikuti tahapan pengembangan yang dikemukakan Plomp dengan memperhatikan tiga aspek produk dari Nieveen. Instrumen yang dikembangkan berupa lembar validasi model pembelajaran, perangkat pembelajaran, dan soal HOTS yang divalidasi oleh ahli dan praktisi. Penelitian ini menghasilkan Model Pembelajaran Pendidikan Matematika Realistik Indonesia Berbasis Budaya Batak Toba yang memenuhi kriteria Valid, baik secara isi dan konstruk, praktis dan efektif, tingkat partisipasi aktif dan respon calon guru berada pada level tinggi. Implikasi penelitian ini berupa model pembelajaran yang dapat meningkatkan kemampuan HOTS calon guru sekolah dasar. Rekomendasi bagi peneliti selanjutnya supaya dapat menerapkan Model Pembelajaran Pendidikan Matematika Realistik Indonesia Berbasis Budaya Batak Toba pada matakuliah lainnya untuk meninjau dampak kemampuan HOTS calon guru sekolah dasar.

Kata Kunci: Model Pembelajaran Pendidikan Matematika Realistik Indonesia Berbasis Budaya Batak Toba, Tingkat Kevalidan, Tingkat Kepraktisan, Tingkat Keefektifan

ABSTRACT

PATRI JANSON SILABAN. *Development of a Realistic Indonesian Mathematics Education Learning Model Based on Toba Batak Culture to Improve the HOTS Capabilities of Prospective Elementary School Teachers. Medan: Medan State University Postgraduate Program. June 2024.*

This research aims to develop and test the level of validity, practicality and effectiveness in implementing the Indonesian Realistic Mathematics Education Learning Model Based on Toba Batak Culture to Improve the HOTS Capabilities of Prospective Elementary School Teachers. The research method used is development research (Developmental Research). The Indonesian Realistic Mathematics Education Learning Model Based on Toba Batak Culture was developed to meet the criteria for learning model components, namely: model syntax, social system, management reaction principles, supporting system, instructional impact, and accompanying instruments and the necessary instruments. The development of a Realistic Indonesian Mathematics Education Learning Model Based on Toba Batak Culture was carried out following the development stages stated by Plomp by paying attention to three aspects of Nieveen's products. The instruments developed are learning model validation sheets, learning tools, and HOTS questions that are validated by experts and practitioners. This research produces a Realistic Indonesian Mathematics Education Learning Model Based on Toba Batak Culture which meets the criteria of validity, both in content and construct, practical and effective, the level of active participation and response of teacher candidates is at a high level. The implication of this research is a learning model that can improve the HOTS abilities of prospective elementary school teachers. Recommendations for future researchers to apply the Indonesian Realistic Mathematics Education Learning Model Based on Toba Batak Culture in other courses to review the impact of HOTS abilities of prospective elementary school teachers.

Keyword: *Indonesian Realistic Mathematics Education Based on Toba Batak Culture Learning model, Level of Validity, Level of Practicality, Level of Effectiveness.*