ABSTRAK

Nurhasanah Sihotang (NIM. 8206182015), Pengembangan Modul Pembelajaran IPA Berbasis Inkuiri Terbimbing Untuk Meningkatkan Keterampilan Proses Sains Siswa Kelas VII SMP/MTs. Program Studi Pendidikan Dasar Program Pascasarjana Universitas Negeri Medan 2024.

Seiring dengan perkembangan teknologi dan pengetahuan, berbagai apsek kehidupan tentumya juga berkembang termasuk aspek pendidikan khususnya pada bidang sains (IPA). Penelitian dilaksanakan pada bulan Mei tahun 2024 di SMP/MTsN Serdang Bedagai, instrumen pengumpulan data yang digunakan dalam penelitian ini, berupa lembar angket, lembar observasi dan butir soal. Penelitian ini termasuk ke dalam rumpun penelitian dan pengembangan atau Research and Development (R&D), teknik analisis data digunakan untuk menghitung kevalidan dari para validator, respon pendidik danpeserta didik, dan keefektifan bahan ajar. Dari hasil penelitian ditemukan bahwa Modul IPA berbasis Inkuiri terbimbing sangat layak digunakan dalam pembelajaran IPA di kelas VII MTsN Serdang Bedagai, Modul IPA berbasis Inkuiri terbimbing praktis digunakan untuk meningkatkan keterampilan proses sains siswa kelas VII MTsN Serdang Bedagai, dan Modul IPA berbasis Inkuiri terbimbing efektif digunakan untuk meningkatkan keterampilan proses sains siswa kelas VII MTsN Serdang Bedagai. Dari hasil penelitian dapat disimpulkan bahwa dalam pembelajaran IPA yang didasari oleh keterampilan proses sains lebih mudah memahami dan mempelajari materi.

 Kata Kunci: *Modul pembelajaran, inkuiri terbimbing, Ilmu Pengetahuan Alam*

ABSTRACT

Nurhasanah Sihotang (NIM. 8206182015). *Development of Science Learning Modules Based on Guided Inquiry to Improve Science Process Skills of Grade VII Junior High School/Islamic Junior High School Students. Basic Education Study Program, Graduate Program, State University of Medan 2024.*

Along with the advancement of technology and knowledge, various aspects of life, including education, particularly in the field of science (STEM), have also been developing. The research was conducted in May 2024 at SMP/MTsN Serdang Bedagai. The data collection instruments used in this research included questionnaires, observation sheets, and test items. This study falls under the research and development (R&D) domain. Data analysis techniques were employed to calculate the validity from validators, educators' and students' responses, and the effectiveness of teaching materials. The research findings indicate that the Guided Inquiry-based Science Module is highly suitable for use in teaching science to 7th-grade students at MTsN Serdang Bedagai. The practicality of the Guided Inquiry-based Science Module contributes to enhancing the scientific process skills of these students. Moreover, the effectiveness of the Guided Inquiry-based Science Module has been demonstrated in improving the scientific process skills of 7th-grade students at MTsN Serdang Bedagai. In conclusion, the research shows that science learning grounded in scientific process skills makes it easier for students to understand and master the subject matter.

Keywords: learning module, inquiry, natural sciences