

## ABSTRAK

**Dea Shifa Fauzia, NIM 4183351006 (2018), Deskripsi Kemampuan *Science Technology Engineering and Mathematics* (STEM) Materi Pencemaran Lingkungan Masa Pandemi Covid – 19 Siswa SMPSIT Jabal Noor Medan.**

Penelitian ini bertujuan untuk mengetahui keterlaksanaan STEM pada pembelajaran IPA, kemampuan *Science, Technology, Engineering, and Mathematics* (STEM) dan respon peserta didik pada saat mempelajari materi pencemaran lingkungan kelas VII SMP IT Jabal Noor Medan Semester Genap tahun 2021/2022. Jenis penelitian yang digunakan adalah penelitian deskriptif kuantitatif. Metode pengumpulan data yang digunakan dalam penelitian ini adalah instrumen lembar observasi, instrumen tes kemampuan STEM, dan instrumen angket respon peserta didik. Desain penelitian yang digunakan desain *non – eksperimen*. Artinya penelitian ini memberikan gambaran tentang kemampuan STEM peserta didik di SMP IT Jabal Noor Medan T.A 2021/2022 materi pencemaran lingkungan. Penelitian ini dilaksanakan pada bulan Mei 2022. Populasi dalam penelitian adalah seluruh peserta didik kelas VII SMP IT Jabal Noor yang berjumlah 180 orang. Pengambilan sampel dilakukan dengan *random sampling* dengan kelas yang terpilih adalah kelas VII A dan VII E dengan populasi seluruh sampel adalah 58 orang. Hasil penelitian menunjukkan bahwa keterlaksanaan proses pembelajaran IPA materi pencemaran lingkungan mendapatkan persentase 71,3% yakni berada pada kategori “baik”. Kemampuan *science* peserta didik kelas VII berada pada kategori “tinggi”, kemampuan *technology* peserta didik kelas VII berada pada kategori “sangat tinggi”, kemampuan *engineering* peserta didik kelas VII berada pada kategori “sedang”, dan kemampuan *mathematics* peserta didik kelas VII berada pada kategori “rendah”, dan secara keseluruhan kemampuan STEM peserta didik kelas VII berada pada kategori “baik”. Respon peserta didik terhadap pembelajaran IPA materi pencemaran lingkungan kelas VII T.A 2021 / 2022 berada pada kategori “tinggi”.

**Kata Kunci:** Deskripsi, Kemampuan, STEM, IPA, Pencemaran Lingkungan.



## **ABSTRACT**

**Dea Shifa Fauzia, NIM 4183351006 (2018), *Description of the Ability of Science Technology Engineering and Mathematics (STEM) for Environmental Pollution Materials during the Covid-19 Pandemic Period for Students of Junior High School IT Jabal Noor Medan.***

*This study aims to determine the implementation of the science learning process, the ability of Science, Technology, Engineering, and Mathematics (STEM) and student responses when studying environmental pollution material for class VII SMP IT Jabal Noor Medan Even Semester 2021/2022. The type of research used was descriptive quantitative research. The data collection methods used in this study were the observation sheet instrument, the STEM ability test instrument, and the student response questionnaire instrument. The research design used was a non-experimental design. This means that this study provides an overview of the STEM abilities of students at SMP IT Jabal Noor Medan T.A 2021/2022 regarding environmental pollution. This research was conducted in May 2022. The population in the study were all students of class VII SMP IT Jabal Noor, totaling 180 people. Sampling was done by random sampling with the selected class was class VII A and VII E with a population of all samples was 58 people. The results showed that the implementation of the science learning process on environmental pollution material got a percentage of 71.3% which was in the "good" category. The scientific ability of class VII students is in the "high" category, the technological ability of class VII students is in the "very high" category, the engineering ability of class VII students is in the "medium" category, and the mathematics ability of class VII students is in the category "low", and overall the STEM abilities of class VII students are in the "good" category. The response of students to science learning about environmental pollution in class VII T.A 2021/2022 is in the "high" category.*

**Keywords: Description, Ability, STEM, IPA, Environmental Pollution.**

