



UNIVERSITAS NEGERI MEDAN

**THE DEVELOPMENT OF VIRTUAL LABORATORY
TO IMPROVE STUDENT CRITICAL THINKING
SKILLS ON THE TEACHING OF
GAS CHROMATOGRAPHY**

THESIS

Submitted to Fulfill Requirement for Degree of
Sarjana Pendidikan

**Mega Feronika Purba
IDN 4183131025**

Bilingual Chemistry Education Study Program

**DEPARTMENT OF CHEMISTRY
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
MEDAN
JULY 2022**