



UNIVERSITAS NEGERI MEDAN

**THE DEVELOPMENT OF ARTIFICIAL LEARNING MEDIA
TO FASILITATE ACTIVE LEARNING TO IMPROVE
LEARNING OUTCOME ON THE TEACHING OF GAS
CHROMATOGRAPHY**

THESIS

**Submitted to Fulfill Requirement for Degree of
Sarjana Pendidikan**

**Rahma Safitri
IDN 4203332024**

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FACULTY OF MATHEMATICS AND NATURAL SCIENCES
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