



UNIVERSITAS NEGERI MEDAN

**THE EFFECT OF PROBLEM BASED LEARNING (PBL) ORIENTED
LESSON STUDY WITH INTERACTIVE POWERPOINT
TOWARD CRITICAL THINKING ABILITY IN
MATERIALS BUFFER SOLUTION**

THESIS

**Submitted to Fulfill of the Requirements for Degree of
Sarjana Pendidikan**

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Bilingual Chemistry Education Study Program

THE
Character Building
UNIVERSITY

**CHEMISTRY DEPARTMENT
FACULTY MATHEMATICS AND NATURAL SCIENCES
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