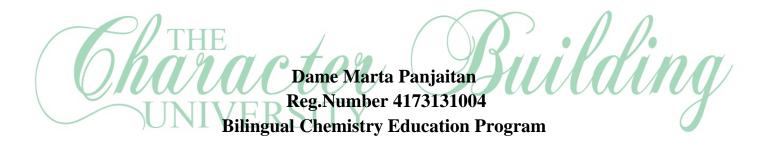


UNIVERSITAS NEGERI MEDAN

THE DEVELOPMENT OF CHEMICAL BONDING E-MODULE INTEGRATED PROBLEM BASED LEARNING MODEL AND HOTS PROBLEM

THESIS

Submitted to Fulfill the Requirement for Getting the Degree of Sarjana Pendidikan



CHEMISTRY DEPARTMENT
FACULTY OF MATHEMATIC AND NATURAL SCIENCES
MEDAN