

**THE EFFECT OF COOPERATIVE LEARNING MODEL STAD (STUDENTS  
TEAMS ACHIEVEMENT DIVISION) TIPE ASSISTED BY CARD TEST  
OF THE STUDENTS OUTCOMES AT SUBJECT MATTER  
MEASUREMENT CLASS X SMAN 5 MEDAN  
ACADEMIC YEAR 2018/2019**

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Bilingual Physics Education Study Program**



**THESIS**

**Submitted in Partial Fulfilment of The Requirements for  
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**PHYSICS DEPARTMENT  
FACULTY OF MATHEMATICS AND NATURAL SCIENCES  
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