Tittle of thesis : The Effect of Cooperative Learning Model Type Group

Investigation Toward Student Learning Outcomes On

Circular Motion At X SMA Negeri 18 Medan Academic

Year 2018/2019

Name : Rio Mahera Lumbantoruan

ID Number : 4143322023

Study program : Bilingual Physics Education

Department : Physics

Approved by thesis supervisor

Dr. Derlina, M.Si

NIP. 19640321 1990032001

Physics Department

Head,

Bilingual Program Coordinator,

Dr. Wawan Bunawan, M.Pd., M.Si

NIP. 19681205 199303 1 001

Dr. Iis Siti Jahro, M.Si

NIP. 19651015 199203 2 003

FMIPA UNIMED

Dean,

Dr. Martina Restuati, M.Si NIP, 19630321 198803 2 002

Date of Graduation : January, 09th 2019

BIOGRAPHY

Rio Mahera Lumbantoruan was born in Siambolas on January18th, 1995. Father's name isSyarif Lumbantoruan and Mother's name isRentama Nababan, and she is the fourof eightsiblings. In 2010, the author continued his education in SMA Swasta Dharma Bhakti and graduated in 2013. In 2014, the authors was accepted in Bilingual Physics Education Studies Program in Department of Physics, Faculty of Mathematics and Sciences in State University of Medan.

