

## **ABSTRACT**

Senior High School is the level where students begin to select specializations of majors in university based on their interests and talents. Most of them feel unsure of their chosen majors. In this study, the topic of the discussion focuses on making the pattern of student acceptance in state universities using C4.5 algorithm based on the average score of students' subjects in the National Examination from the first semester to the fifth semester at Baleendah 1 Senior High School.

The output of this research is a decision tree with 87.80% of accuracy that can be used and implemented by the guidance and counselling division of Baleendah 1 Senior High School to predict the acceptance of students in state universities based on the average score of students concerned with the hope to increase the number of Baleendah 1 Senior High School admissions on the State University Entrance Selection.

Keywords: decision tree, C4.5 algorithm, data mining, classification.