ABSTRACK

**TESTING AND MAINTENANCE ACTIVE STUDENTS OF COMPUTER
SCIENCE SYSTEM**

By

Hartanto Tantriawan

Active student of computer science system is a system developed based on KRS data that has been inputted by students at the beginning of the semester. The system is developed using simple static algorithm, which is need a system testing and maintenance to change the algorithm from static to dynamic. In this research we have conducted a system testing and maintenance on active student of computer science sytem using black box and white box testing. The result using black box testing are 11 test classes based on inputs and 4 test classes based on outputs. White box testing result are 37 test case with 118 nodes and 83 edges. After we did maintenance in the system, the result using black box testing are 11 test classes based on inputs and 4 test classes based on outputs, while white box testing result are 17 test case with 74 nodes and 59 edges.

Keyword : Black Box Testing, White Box Testing, Node, Edges.