Abstract

Route selection specialization allows students to be able to develop her skills become better and more in-depth study subjects were selected from a field expert. But the problems that often occurs is selected interest students sometimes do not fit with the measured potential academic value. So can affect the value of the next academic semester.

Especially at Telkom Institute of Technology Faculty of Information Engineering diploma courses have 3 areas of specialization for 3 level 2 diploma students. Areas of specialization offered are Advance Programming (AP) and Developing Creative Content (CD). It is expected that each student has the skills included in the two areas of specialization so that students can focus on areas of interest to them, and after graduating from education pursued able to determine which areas of the world experts in their later work.

In the second pathway specialization in the field of the need for a decision support system that can provide a solution that can be material to the student perspectives to determine areas of specialization that should they choose. In order diilih specialization that can fit so that students can gain a better value because it focuses on one field of study. To resolve this problem, he built a decision support system using *SMARTER* and *Oreste* methods. But the system is also used in the development of methods *Weighted Product* to divide into each field. Of a system built when compared to the real condition of the field of specialization according to the division that has been done before, has the highest accuracy of 66.1% valued. The measured accuracy of the comparison smarter method with the old system.

Keywords : *SMARTER , Oreste , Specialisation , Weighted Product , Programming and Developing*