

## Extended Summary

### **The Effect of Use of Classroom Management Software in Programming Fundamentals Course with Collaborative Method on Student Success**

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In the literature it has been seen that teacher-centered instructional methods are frequently used in the fundamentals of programming lectures. However it has been determined that these methods cause low motivation and negative attitudes on the student's behaviours. Because of that opportunities should be provided to the students for creating their self learning and improving their attitudes.

The purpose of the study was to determine the effect of use of classroom management software in "Programming Fundamentals" course with collaborative method on student success. The sample of the study consisted of the students studying at Computer Programming program of Vocational School, Erzincan University and taking the course of Programming Fundamentals. Random experimental design with pretest-posttest is used which is the type of True Experimental design for measure to dependent variable between control and experimental group. Depending on the experimental design, experimental group (n=35) and control group (n=35) were determined by using random sampling method. In the research, NetOp School v.5 as known a course management software is used in the network linked classes.

The questions asked by students in the experimental group were projected to a board by using classroom management software and the solution was asked to be found with other students in the group according to collaborative learning method. Quantitative data are

obtained from the students who were determined to experimental and control groups. For this purpose to measure academic achievement, pretest-posttest were applied to the students and statistical datas were analyzed from the dependent and independent t-test's. Qualitative datas were obtained from the survey and semi-structured interview form. The students in the control group were answered directly from student's monitor with classroom management software by instructor. It was seen as a result of study that they were statistically more significant when the posttest results of the students in the course of Programming Fundamentals were examined. According the results of interview made with student, it was concluded that the students saw their mistakes, they freely expressed their thoughts, their recall skills increased and they understood the code structure better. Results of the study shows that the students liked the method and found very useful for the fundamentals of programming course.

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#### **Citation Information**

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