



## AN ANALYSIS OF THE SELF EFFICACY ABOUT COMPUTER PROGRAMMING OF THE ELECTRICAL-ELECTRONICS AND TEXTILE ENGINEERING STUDENTS IN TECHNOLOGY FACULTY

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### Abstract

In this study, it is examined how the self-efficacy perception, which is as effective as cognitive level of academic achievement, changes according to department and sex in computer programming. Self-efficacy perception scale related to programming is used as data collection tool in the study. The research group consists of 119 students who take computer programming course in electrical-electronics and textile engineering departments of Marmara University Faculty of Technology during the spring semester of 2016-2017 academic year. The results of the study revealed that; the self-efficacy of students is high to perform simple programming tasks, but low in terms of performing complex programming tasks. In addition, it is observed that students in the electrical-electronics engineering department have a higher self-efficacy perception than students in the textile engineering department. Also self-efficacy beliefs differed with respect to their gender, male students have a higher self-efficacy perception than female students.

**Keywords:** Self - efficacy, Computer programming education, Engineering education.