ABSTRACT

AL WANITA IMANI HIKMATUPRILLA. *The Influence of the ICARE Learning Model (Introduction, Connect, Apply, Reflect, Extend) in Distance Learning on the Mathematical Problem Solving Ability of Students at* SMK Negeri 2 Karawang. *Thesis.* Jakarta: *Mathematics Education Study Program, Faculty of Mathematics and Natural Sciences, Jakarta State University,* 2021.

This study aims to obtain empirical information about the effect of implementing the ICARE *learning model (Introduction, Connect, Apply, Reflect, Extend) in distance learning on students' problem-solving abilities at* SMK Negeri 2 Karawang. *The research method used was a quasi-experimental with posttest-only control group design. The population in this study were all class X students at* SMK Negeri 2 Karawang. *Sampling using Cluster Random Sampling and Simple Random Sampling. The research instrument applied a mathematical problem-solving ability test in sequence and series which had been tested for validity and reliability. Based on analysis data result with t'-test of two independent samples with a significant level of 5%. The t'-test calculation obtained a value of* $t' = 3{,}190$ *and* $\frac{w_1 t_1 + w_2 t_2}{w_1 + w_2} = 1{,}690$ *so that* H_0 *being rejected, which means that the mean test results of students' mathematical problem-solving abilities in the experimental class were higher than the control class. It can be concluded that the* ICARE *learning model in distance learning has a significant effect on the mathematical problem-solving abilities of students at* SMK Negeri 2 Karawang *on the sequence and series material. The large effect test carried out obtained the result of* ***d*** *= 0.8, with a percentage of 79% and is included in the large category.*

Keywords*: Learning Model* ICARE *(Introduction, Connect, Apply, Reflect, Extend), Distance Learning, Mathematical Problem Solving Ability*