

**Dynamic System Modeling of Suwar – Suwir Production Pattern at UD.**

**“SUWAR-SUWIR DOHO” Company Jember Regency**

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*ABSTRACT*

*The location of this research was determined deliberately, it was at UD. Suwar-Suwir Doho Kabupaten Jember. The research was conducted from November 2019 until January 2020. It was a descriptive research which aimed to describe the production system of suwar-suwir by describing, recording, analyzing, and interpreting the conditions that occurred in the system. The method that used in this research was the expert system method, namely the problem-solving method which was carried out by conducting interviews with experts who were in suwar-suwir production, then the results were modeled by using the Powersim Constructor version 2.51 software. The results from this research were; a) the factors that could affect the production of suwar-suwir materials including the raw material sub-system, production sub-system, and profit sub-system; b) Based on the results of the dynamic system modeling of suwar-suwir production were a moderate scenario, an optimistic scenario, and a pessimistic scenario. In the optimistic scenario, there was an increase in production on each month and the profits that obtained by the company, while in the pessimistic scenario, there was a decrease in the profits that obtained by the company.*

**Keywords:** *modeling, production systems, suwar-suwir*