

An Analysis Efficiency of Long-Term Scheduling in the Production Process Of Manufacturing Companies: A Systematic Literature Review

Hugo Geraldly Tanara, Lilya Syopiana, Livia Putri and Haryadi Sarjono

BINUS Business School Undergraduate, Bina Nusantara University, Management Department,
Jl. KH. Syahdan No. 9, Palmerah, Jakarta Barat, Indonesia

email : hugo.tanara@binus.ac.id; lilya.syopiana@binus.ac.id; livia.putri@binus.ac.id;
haryadi_s@binus.edu

Abstract

Long-term scheduling is the culmination of the production process which includes research, development, and planning of new products, as well as factory development. There are various methods of long-term scheduling that can be used by manufacturing companies, such as metaheuristics, Production Control System (PCS), Campbell Dudek Smith (CDS), palmer, genetic algorithms, Stochastic Integer Programming (SIP), Critical Path Method (CPM), etc. The combination of long-term scheduling methods and long-term scheduling systems will result in optimization and efficiency of the company's production process. Thus, based on research that has been done with the SLR method which aims to analyze the efficiency of long-term scheduling in the production process of manufacturing companies, it is concluded that the use of long-term scheduling can provide optimal and efficient results when combined with the long-term scheduling method with an efficiency level of 35,23%. Keyword: Long-term scheduling efficiency, Systematic Literature Review, Manufacturing Companies.

Biographies

Hugo Geraldly Tanara is a student majoring in Management at BINUS University who takes Business Development Management courses. Whose future prospects is to further do post-graduate diploma in Management.

Lilya Syopiana is a student majoring in Management at BINUS University who takes Business Organization courses. Whose future prospects is to further do post-graduate diploma in Management.

Livia Putri is a student majoring in Management at BINUS University who takes Business Development Management courses. Whose future prospects is to further do post-graduate diploma in Management.

Haryadi Sarjono as a permanent lecturer majoring in management with specialization in operations management, Bina Nusantara University, West Jakarta, Indonesia, since 1996, has received the best paper at IEOM 2021 Surakarta, Indonesia